Service
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Service Manual

Horizontal Frequency
30 - 83kHz

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFOMER FOR THIS UNIT WHEN SERVICING

Revision List

Version	Release Date	Revision History	TPV Model Name
A00	Aug.-12-2011	Initial release	TAB2N26EAGA1DNE
			TABMN26EAGA1DNE
			TABGN26BAGA1DNE
			TAB2N26BAGA1DNE
			TABGN26EAGA1DNE
A01	Oct.-24-2011	Add new model	TABMN26QAGA15NE
A02	Nov.-13-2012	Add new models	TAB2N26BDFA1DAE
			TAB2N26EAGA1DAE
			TACSN26BDFA2DNE
			TACSN26BDFA1DNE
			TACSN26EAGA2DNE
			TACSN26EAGA2DNE
			TACSN26EAGA2DNE
			TACSN26BDFA6DNE
			TACSN26BDFA7DNE
			TACSN26EAGA1DNE
			TACSN26EAGA1DNE
			TACSN26EAGA1DNE
			TAB2N26BDFA2DAE
			TAC2N26BDFA1DNE

Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.
Hereafter throughout this manual, AOC Company will be referred to as AOC.

WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC. AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.
Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:
DANGER-Invisible laser radiation when open AVOID DIRECT EXPOSURE TO BEAM.
CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.
Take care during handling the LCD module with backlight unit
-Must mount the module using mounting holes arranged in four corners.
-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
-Make certain that treatment person’s body is grounded through wristband.
-Do not leave the module in high temperature and in areas of high humidity for a long time.
-Avoid contact with water as it may a short circuit within the module.
-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

1.Monitor Specifications

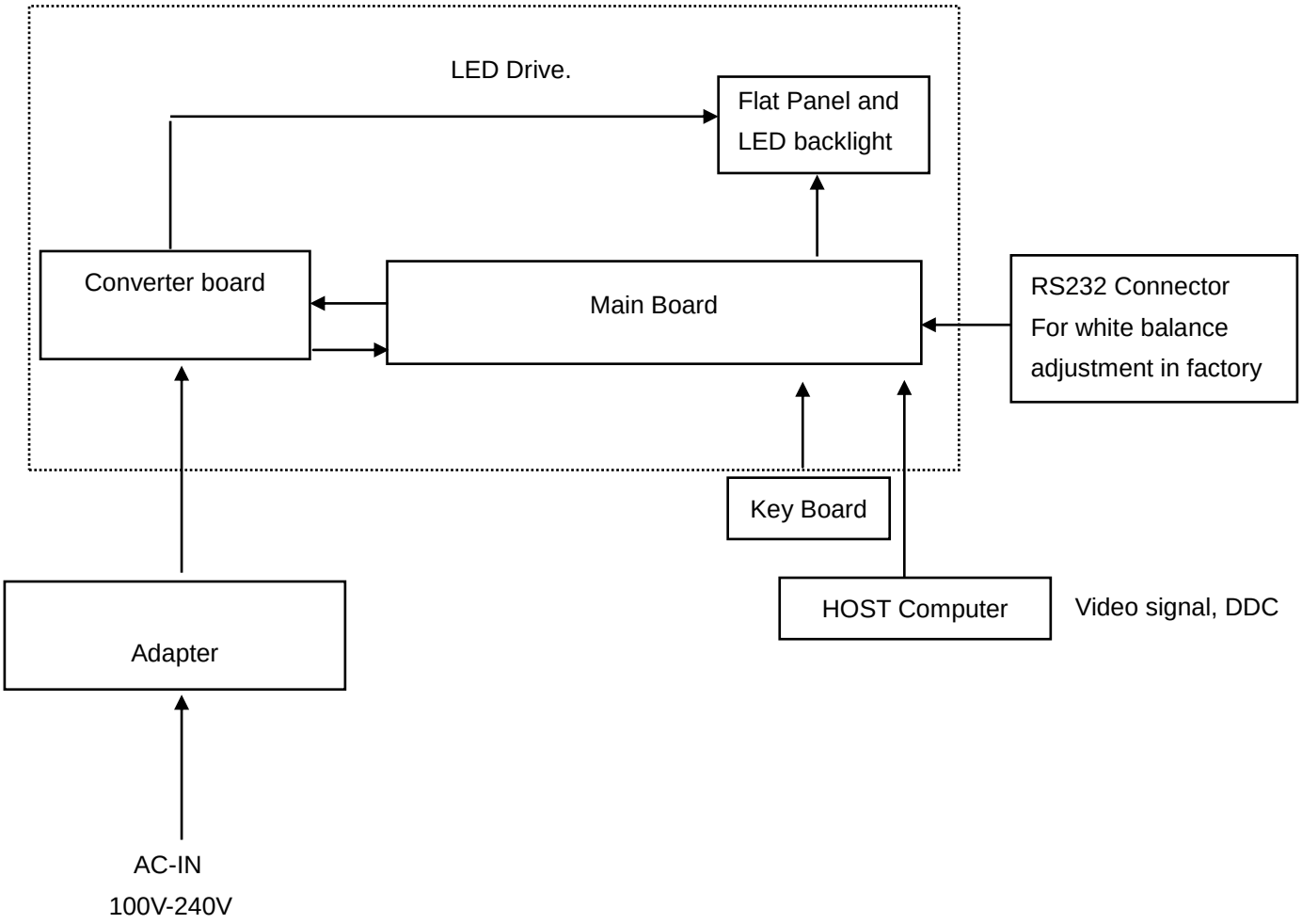
Panel	Model name	e2050Sda
	Driving system	TFT Color LCD
	Viewable Image Size	50.8cm diagonal
	Pixel pitch	0.2768mm(H) x 0.2768mm(V)
	Video	R, G, B Analog Interface ， DVI
	Separate Sync.	H/V TTL
	Display Color	16.7M Colors
	Dot Clock	108 MHz
Resolution	Horizontal scan range	30 kHz - 83 kHz
	Horizontal scan Size(Maximum)	442.8mm
	Vertical scan range	50 Hz - 75 Hz
	Vertical scan Size(Maximum)	249.075mm
	Optimal preset resolution	1600 x 900 (60 Hz)
	Plug & Play	VESA DDC2B
	Input Connector	D-Sub 15pin ，DVI 24 pin
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, , DVI TMDS
	Power Source	100-240V~, 50/60Hz
	Power Consumption	Active < 25 W
		Standby < 0.5 W
	Speakers	2W x 2
	Off timer	0-24 hrs
Physical Characteristics	Connector Type	15-pin Mini D-Sub , 24 pin DVI
	Signal Cable Type	Detachable
	Dimensions & Weight:	
	Height (with base)	477.75 mm
	Width	361.0 mm
	Depth	175.0 mm
	Weight (monitor only)	3.019kg
Environmental	Temperature:	
	Operating	0° to 40°
	Non-Operating	-25°to 55°
	Humidity:	
	Operating	10% to 85% (non-condensing)

2.LCD Monitor Description

The LCD monitor will contain a main board, an adapter board, a converter board and a key board which house the flat panel control logic, brightness control logic and DDC.

The power part will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.

Monitor Block Diagram



3. Operating Instructions

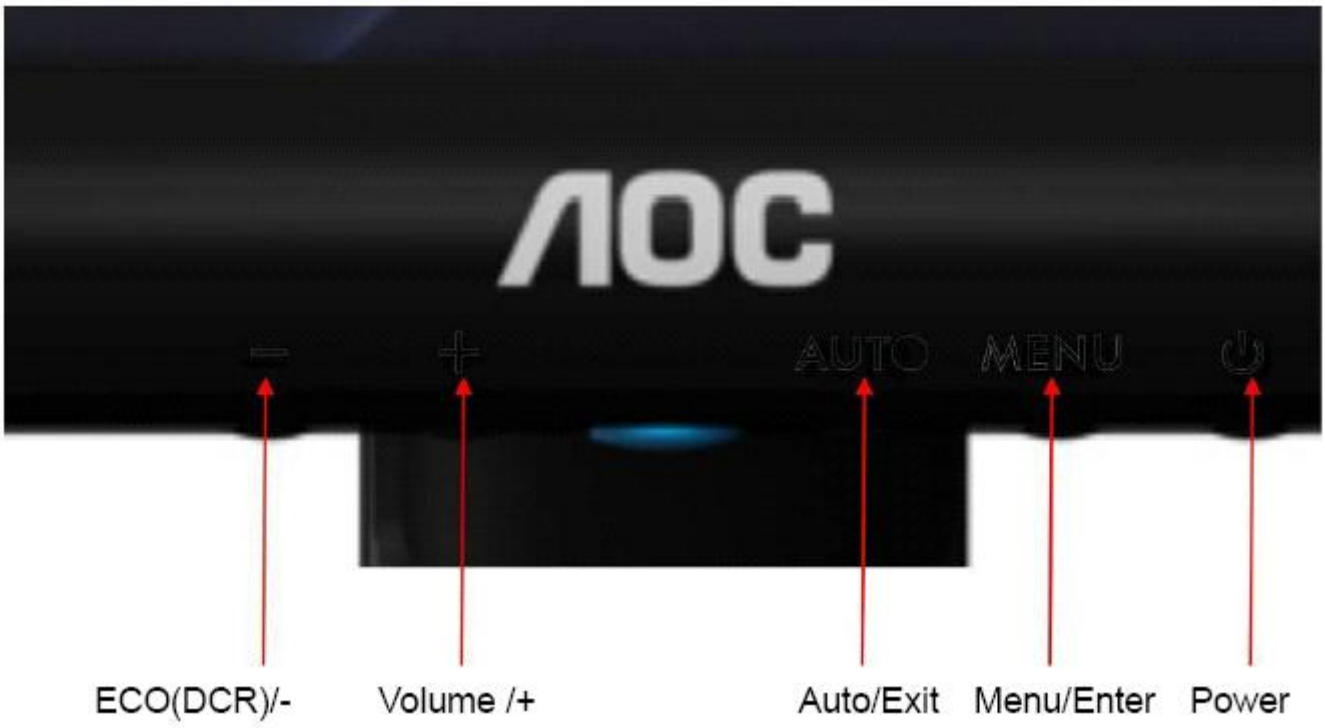
3.1 General Instructions

Press the power button to turn the monitor on or off. The other control knobs are located at front panel of the monitor (See Figure). By changing these settings, the picture can be adjusted to your personal preferences.

* The power cord should be connected.

* Press the power button to turn on the monitor. The power indicator will light up.

3.2 Control Buttons and Connections



Power

Press the Power button to turn on/off the monitor.

Eco (DCR)/ -

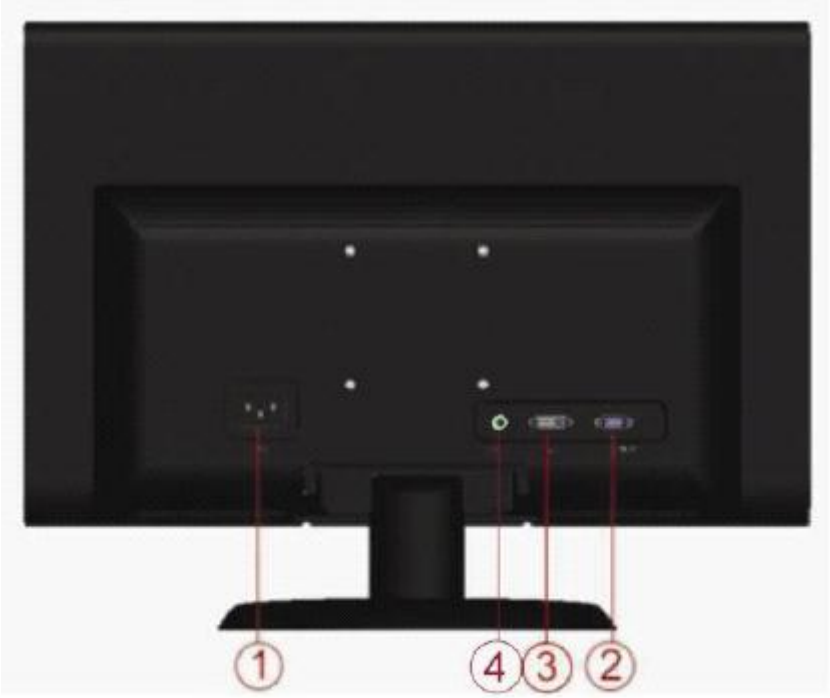
Press the Eco key continuously to select the Eco mode of brightness and DCR on when there is no OSD. (Eco mode hot key may not be available in all models).

Volume adjustment hot key:

When there is no OSD,press Volume+ to active volume djustment bar,press - or + to adjust volume(Only for the models with speakers)

Auto / Exit

When the OSD is closed,. Press Auto button continuously to do auto configure (Only for the models with dual or more inputs).



1. Power

2. Analog (DB-15 VGA cable)

3. DVI

4. Audio

To protect equipment, always turn off the PC and LCD monitor before connecting.

1 Connect the power cable to the AC port on the back of the monitor.

2 Connect one end of the 15-pin D-Sub cable to the back of the monitor and connect the other end to the computer's D-Sub port.

3. Connect one end of the DVI cable to the back of the monitor and connect the other end to the computer‟s DVI port.

4 Connect the audio cable to audio in port on the back of the monitor.

5 Turn on your monitor and computer.

If your monitor displays an image, installation is complete. If it does not display an image, please refer Troubleshooting.

3.3 OSD Setting

Basic and simple instruction on the control keys.

1) Press the **MENU-button** to activate the OSD window.

2) Press **- or +** to navigate through the functions. Once the desired function is highlighted, press the **MENU-button** to activate it. press **- or +** to navigate through the sub-menu functions. Once the desired function is highlighted, press **MENU-button** to activate it.

3) Press **- or +** to change the settings of the selected function. Press **AUTO** to exit. If you want to adjust any other function, repeat steps 2-3.

4) OSD Lock Function: To lock the OSD, press and hold the **MENU button** while the monitor is off and then press **power button** to turn the monitor on. To un-lock the OSD - press and hold the **MENU button** while the monitor is off and then press **power button** to turn the monitor on.

Notes:

1) If the product has only one signal input, the item of "Input Select" is disable to adjust.

2) If the product screen size is 4:3 or input signal resolution is wide format, the item of "Image Ratio" is disable to adjust.

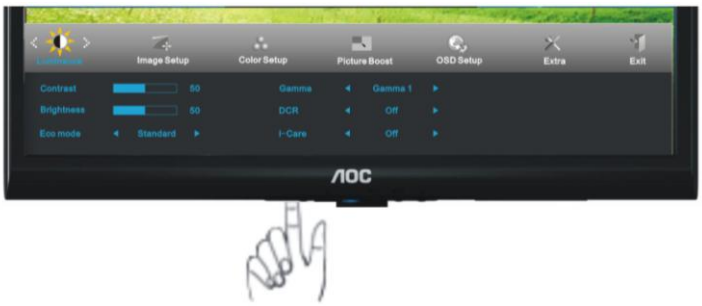
3) One of DCR, Color Boost, and Picture Boost functions is active, the other two function is turned off accordingly.

Luminance

1

Press **MENU** (Menu) to display menu.

2



Press **−** or **+** to select (Luminance), and press **MENU** to enter.

3

Press **−** or **+** to select submenu, and press **MENU** to enter.

4

Press **−** or **+** to adjust.

5

Press **AUTO** two times to exit.

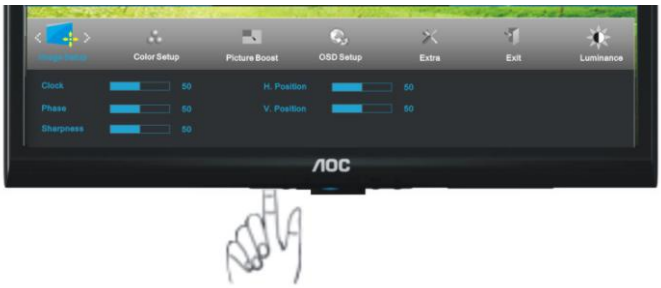
	Brightness	0-100		Backlight Adjustment
	Contrast	0-100		Contrast from Digital-register.
	Eco mode	Standard		Standard Mode
		Text		Text Mode
		Internet		Internet Mode
		Game		Game Mode
		Movie		Movie Mode
		Sports		Sports Mode
	Gamma	Gamma1		Adjust to Gamma1
		Gamma2		Adjust to Gamma 2
		Gamma3		Adjust to Gamma 3
	DCR	Off		Disable dynamic contrast ratio
		On		Enable dynamic contrast ratio

Image Setup

1

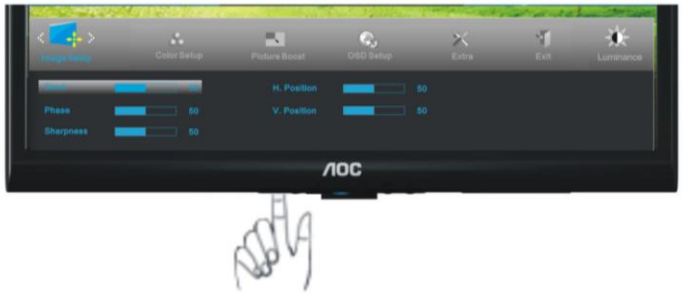
Press MENU (Menu) to display menu.

2



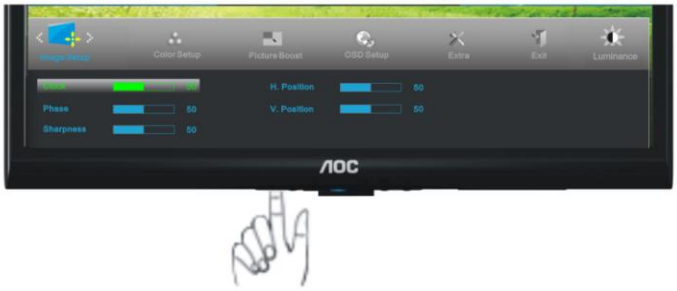
Press − or + to select (Image Setup), and press MENU to enter.

3



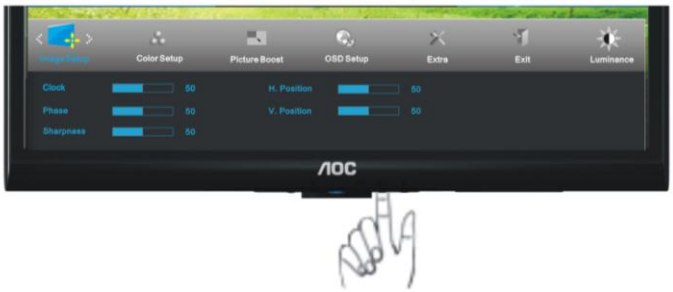
Press − or + to select submenu, and press MENU to enter.

4



Press − or + to adjust.

5



Press **AUTO** two times to exit.

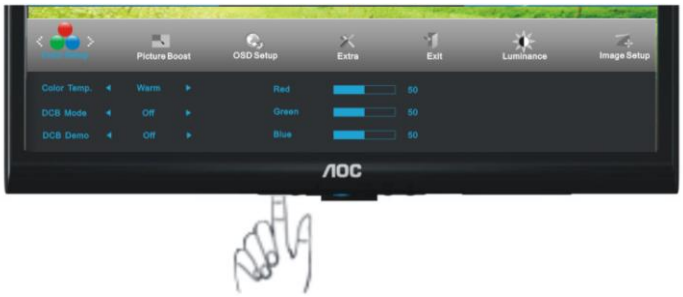
	Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
	Phase	0-100	Adjust Picture Phase to reduce Horizontal-Line noise
	Sharpness	0-100	Adjust picture sharpness
	H.Position	0-100	Adjust the horizontal position of the picture.
	V.Position	0-100	Adjust the vertical position of the picture.

Color Setup

1

Press **MENU** (Menu) to display menu.

2



Press **−** or **+** to select (Color Setup), and press **MENU** to enter.

3

Press **−** or **+** to select submenu, and press **MENU** to enter.

4

Press **−** or **+** to adjust.

5

Press **AUTO** two times to exit.

	Color setup.	Warm		Recall Warm Color Temperature from EEPROM.
		Normal		Recall Normal Color Temperature from EEPROM.
		Cool		Recall Cool Color Temperature from EEPROM.
		sRGB		Recall SRGB Color Temperature from EEPROM.
		User	Red	Red Gain from Digital-register
			Green	Green Gain Digital-register.
			Blue	Blue Gain from Digital-register
	DCB Mode	Full Enhance	on or off	Disable or Enable Full Enhance Mode
		Nature Skin	on or off	Disable or Enable Nature Skin Mode
		Green Field	on or off	Disable or Enable Green Field Mode
		Sky-blue	on or off	Disable or Enable Sky-blue Mode
		AutoDetect	on or off	Disable or Enable AutoDetect Mode
	DCB Demo		On or off	Disable or Enable Demo

Picture Boost

1

Press MENU (Menu) to display menu.

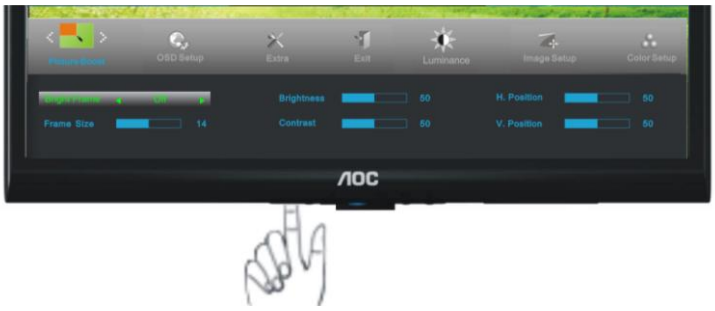
2

Press − or + to select (Picture Boost), and press MENU to enter.

3

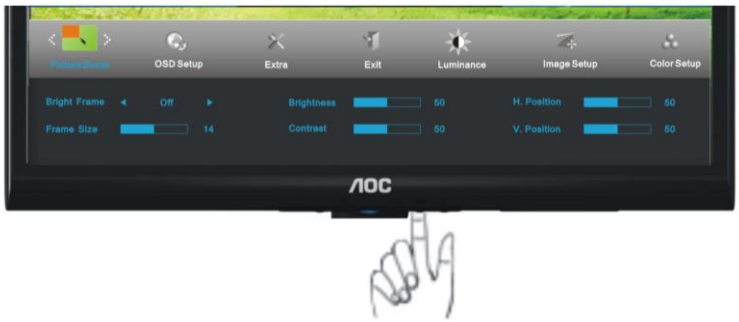
Press − or + to select submenu, and press MENU to enter.

4

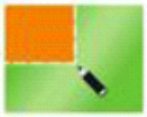


Press − or + to adjust.

5



Press **AUTO** two times to exit.

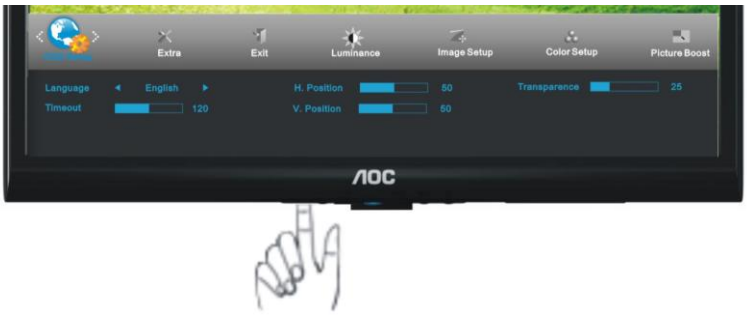
	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	H. position	0-100	Adjust Frame horizontal Position
	V.position	0-100	Adjust Frame vertical Position
	Bright Frame	on or off	Disable or Enable Bright Frame

OSD Setup

1

Press **MENU** (Menu) to display menu.

2

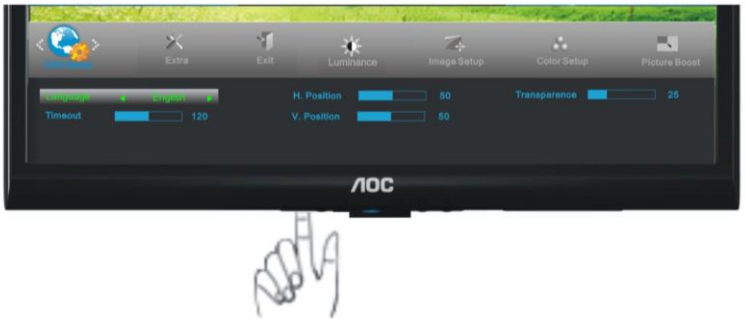


Press **−** or **+** to select (OSD Setup), and press **MENU** to enter.

3

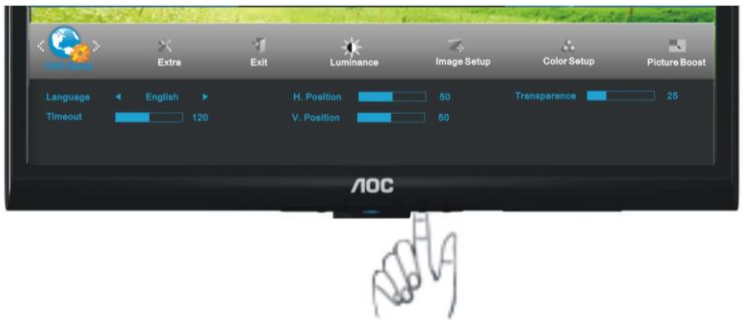
Press **−** or **+** to select submenu, and press **MENU** to enter.

4



Press **−** or **+** to adjust.

5



Press **AUTO** two times to exit.

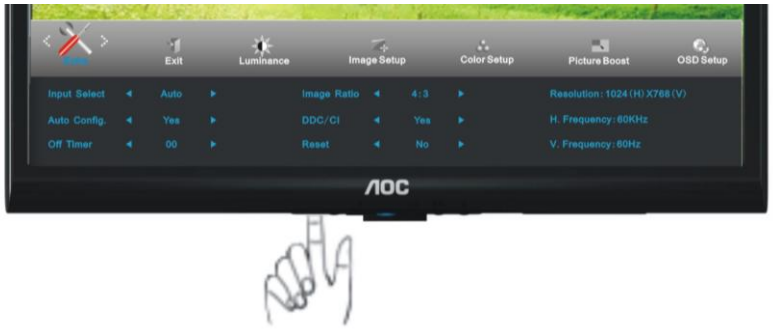
	H.Position	0-100	Adjust the horizontal position of OSD
	V.Position	0-100	Adjust the vertical position of OSD
	Timeout	5-120	Adjust the OSD Timeout
	Transparence	0-100	Adjust the transparence of OSD
	Language		Select the OSD language

Extra

1

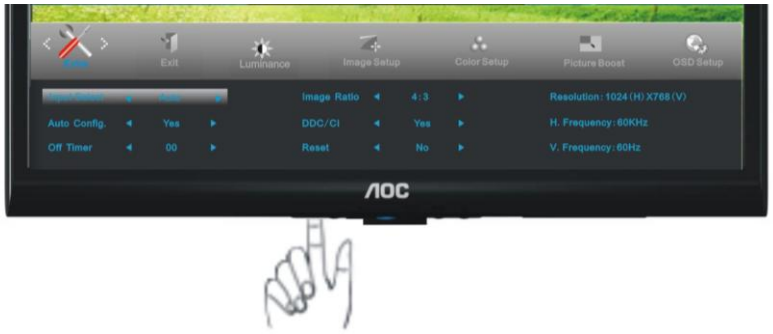
Press **MENU** (Menu) to display menu.

2



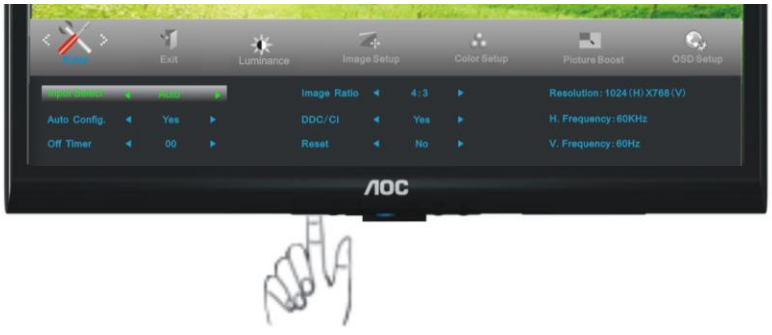
Press − or + to select (Extra), and press **MENU** to enter.

3



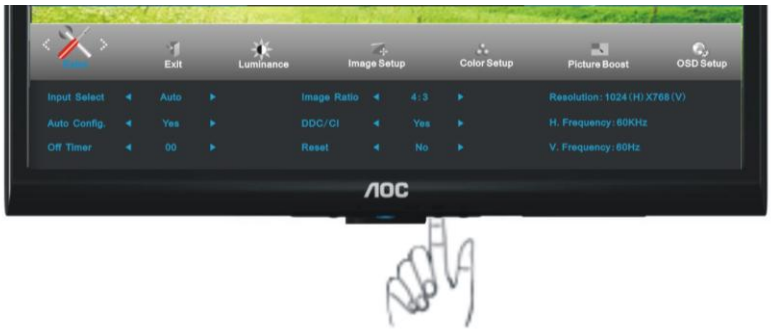
Press − or + to select submenu, and press **MENU** to enter.

4



Press − or + to adjust.

5



Press **AUTO** two times to exit.

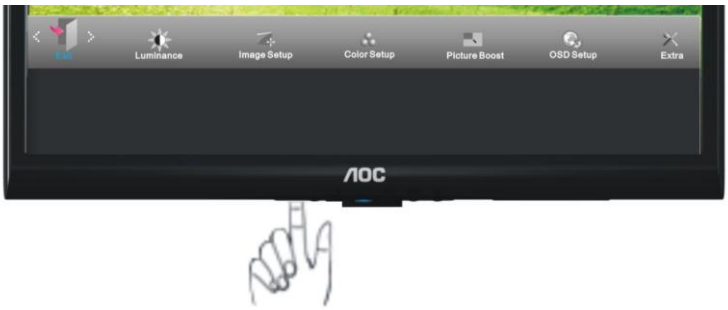
	Input Select	Auto	Select to Auto Detect input signal
		Analog	Select Analog Signal Source as Input
		DVI	Select DVI Signal Source as Input
	Auto Config	yes or no	Auto adjust the picture to default
	Off timer	0-24hrs	Select DC off time
	Image Ratio	wide or 4:3	Select wide or 4:3 format for display
	DDC-CI	yes or no	Turn ON/OFF DDC-CI Support
	Reset	Yes or no	Reset the menu to default
	Information		Show the information of the main image and sub-image source

Exit

1

Press **MENU** (Menu) to display menu.

2



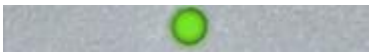
Press **−** or **+** to select (Exit), and press **MENU** to enter.

3

Press **AUTO** two times to exit

	Exit		Exit the main OSD

LED Indicators

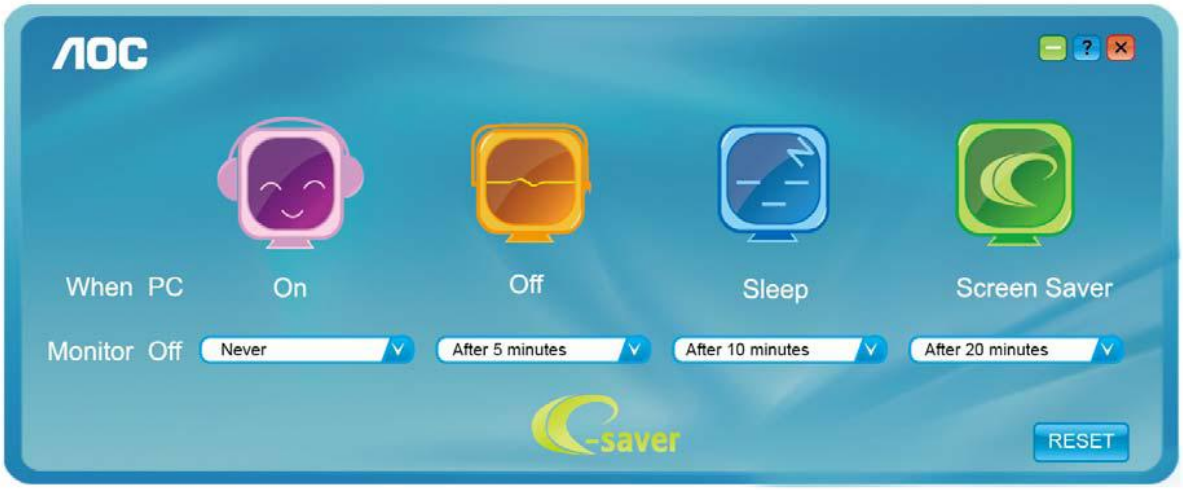
Status	LED Color	
Full Power Mode	Green or Blue	
Active-off Mode	Orange or red	

e-Saver

Welcome to use AOC e-Saver monitor power management software! The AOC e-Saver features Smart Shutdown functions for your monitors, allows your monitor to timely shutdown when PC unit is at any status (On, Off, Sleep or Screen Saver); the actual shutdown time depends on your preferences (see example below).
Please click on "driver/e-Saver/setup.exe" to start installing the e-Saver software, follow the install wizard to complete software installation.

Under each of the four PC status, you may choose from the pull-down menu the desired time (in minutes) for your monitor to automatically shutdown. The example above illustrated:
1) The monitor will never shutdown when the PC is powered on.
2) The monitor will automatically shutdown 5 minutes after the PC is powered off.
3) The monitor will automatically shutdown 10 minutes after the PC is in sleep/stand-by mode.
4) The monitor will automatically shutdown 20 minutes after the screen saver appears.

You can click “RESET” to set the e-Saver to its default settings like below.



Question	Answer
e-sensor no power	1. Into the factory mode，set Burn in to **OFF**; 2. Set e-sensor to **ON**.
interface show **e-sensor**	The detecting range is too near or far and the User is far away the monitor, reset the examination area.
it can’t your monitor to turn off or dark while you are away	1. Please do not block the e-Sensor on the LOGO, which is located on the left of AOC logo. 2. The detecting range is too far or the things blocks monitor , reset the examination area.

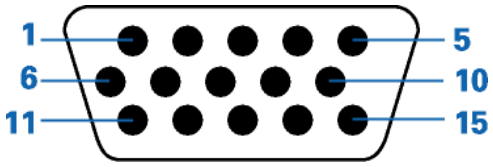
Screen+

Welcome to "Screen+" software by AOC, Screen+ software is a desktop screen splitting tool, it splits the desktop into different panes, each pane displays a different window. You only need to drag the window to a corresponding pane, when you want to access it. It supports multiple monitor display to make your task easier. Please follow the installation software to install it.

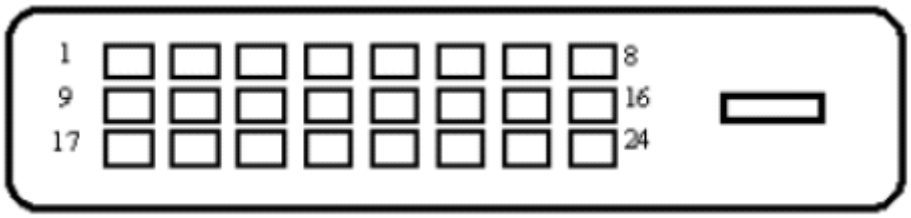
4. Input/Output Specification

4.1 Input Signal Connector

Analog connector



Pin Number	15-Pin Side of the Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	N.C.
5	Detect Cable
6	GND-R
7	GND-G
8	GND-B
9	+5V
10	Ground
11	N.C.
12	DDC-Serial data
13	H-sync
14	V-sync
15	DDC-Serial clock



Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	TMDS Data 2-	9	TMDS Data 1-	17	TMDS Data 0-
2	TMDS Data 2+	10	TMDS Data 1+	18	TMDS Data 0+
3	TMDS Data 2/4 Shield	11	TMDS Data 1/3 Shield	19	TMDS Data 0/5 Shield
4	TMDS Data 4-	12	TMDS Data 3-	20	TMDS Data 5-
5	TMDS Data 4+	13	TMDS Data 3+	21	TMDS Data 5+
6	DDC Clock	14	+5V Power	22	TMDS Clock Shield
7	DDC Data	15	Ground(for+5V)	23	TMDS Clock +
8	N.C.	16	Hot Plug Detect	24	TMDS Clock -

4.2 Preset Display Modes

STAND	RESOLUTION	HORIZONTAL FREQUENCY(kHZ)	VERTICAL FREQUENCY(Hz)
VGA	640×480 @60Hz	31.469	59.940
VGA	640×480 @67Hz	35.000	66.667
VGA	640×480 @72Hz	37.861	72.809
VGA	640×480 @75Hz	37.500	75.000
Dos-mode	720×400 @70Hz	31.469	70.087
SVGA	800×600 @56Hz	35.156	56.250
SVGA	800×600 @60Hz	37.879	60.317
SVGA	800×600 @72Hz	48.077	72.188
Mac-mode	832×624 @75Hz	49.725	74.500
XGA	1024×768 @60Hz	48.363	60.004
XGA	1024×768 @70Hz	56.476	70.069
XGA	1024×768 @75Hz	60.023	75.029
XGA	1024×768 @75Hz	60.241	74.927
WSXGA	1600×900 @60Hz	55.540	59.978

4.3 Panel Specification

4.3.1 General Features

LM200WD3-TLC1 is a Color Active Matrix Liquid Crystal Display with an integral Light Emitting Diode(LED) backlight system. The matrix employs a-Si Thin Film Transistor as the active element.It is a transmissive type display operating in the normally white mode. It has a 20.0 inch diagonally measured active display area with HD+ resolution (900 vertical by 1600 horizontal pixel array) Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with a 8-bit gray scale signal for each dot, thus, presenting a palette of more than 16.7M colors with Advanced-FRC(Frame Rate Control). It has been designed to apply the interface method that enables low power, high speed, low EMI. FPD Link or compatible must be used as a LVDS(Low Voltage Differential Signaling) chip. It is intended to support applications where thin thickness, wide viewing angle, low power are critical factors and graphic displays are important. In combination with the vertical arrangement of the sub-pixels, the LM200WD3-TLC1 characteristics provide an excellent flat panel display for office automation products such as monitors.

4.3.2 GENERAL SPECIFICATIONS

Active screen size	20.0 inches (508.05mm) diagonal
Outline Dimension	462.8(H) x 272.0(V) x 10.2(D) mm(Typ.)
Pixel Pitch	0.0922*RGB(H)mm x 0.2766(V)mm
Pixel Format	1600 horizontal By 900 vertical Pixels. RGB stripe arrangement
Interface	LVDS 2Port
Color depth	16.7M colors
Luminance, white	250 cd/m^2 (Center 1Point, typ)
Viewing Angle (CR>10)	R/L 170(Typ.), U/D 160(Typ.)
Power Consumption	Total 14.2 W(Typ.), (4.3 W@V_{LCD}, 9.9 W@I_{BL} = 110 mA)
Weight	1,150 g (Typ.)
Display operating mode	Transmissive mode, normally White
Surface treatments	Hard coating (3H), Anti-glare treatment of the front polarizer

4.3.3 Electrical Characteristics

1.TFT LCD Module

Parameter	Symbol	Values			Unit	Notes
		Min	Typ	Max		
MODULE :						
Power Supply Input Voltage	V_{LCD}	4.5	5.0	5.5	Vdc	
Permissive Power Input Ripple	V_{LCD}	-	-	0.4	V	3
Power Supply Input Current	$I_{LCD-MOSAIC}$	-	860	1120	mA	1
	$I_{LCD-BLACK}$	-	1100	1430	mA	2
	$I_{LCD-L80}$	-	800	1040	mA	2
Power Consumption	P_{LCD}	-	4.3	5.6	Watt	1
Inrush current	I_{RUSH}	-	-	3.0	A	4

Note :

1. The specified current and power consumption are under the VLCD=5.0V, 25 □ 2°C,fV=60Hz condition whereas mosaic pattern(8 x 6) is displayed and fV is the frame frequency.
2. The current is specified at the maximum current pattern.
3. Permissive power ripple should be measured under VCC=5.0V, 25°C, fV (frame frequency)=75Hz condition and At that time, we recommend the bandwidth configuration of oscilloscope is to be under 20MHz.
4. The duration of rush current is about 5ms and rising time of power Input is 500us 20%.

LED array electrical characteristics

Parameter	Symbol	Condition	Values			Unit	Notes
			Min.	Typ.	Max.		
LED :							1
LED String Current	Is		-	110	120	mA	2
LED String Voltage	Vs		-	44.8	47.6	V	3
Power Consumption	Parray		-	9.9	10.4	Watt	4,6
LED Life Time	LED_LT		30,000	-	-	Hrs	5

LED driver design guide:

The design of the LED driver must have specifications for the LED in LCD Assembly**.**

The performance of the LED in LCM, for example life time or brightness, is extremely influenced by the characteristics of the LED driver.

So all the parameters of an LED driver should be carefully designed and output current should be constant current control.

Please control feedback current of each string individually to compensate the current variation among the strings of LEDs.

When you design or order the LED driver, please make sure unwanted lighting caused by the mismatch of the LED and the LED driver (no lighting, flicker, etc) never occurs.

When you confirm it, the LCD module should be operated in the same condition as installed in your instrument.

Notes :

1. Specified values are for a single LED bar.
2. The specified current is input LED chip 100% duty current.
3. The specified voltage is input LED string voltage at typical 110mA 100% duty current.
4. The specified power consumption is input LED bar power consumption at typical 110mA 100% duty current.
5. The life time is determined as the time at which luminance of the LED is 50% compared to that of initial value at the typical LED current on condition of continuous operating at 25 ± 2°C.
6. The LED bar power consumption shown above does not include loss of external driver.

The used LED string current is the LED typical current.

Typ Power Consumption is calculated with PBar = Vs(Typ.) x Is(Typ.) x Nstring

Max Power Consumption is calculated with PBar = Vs(Max.) x Is(Typ) x Nstring

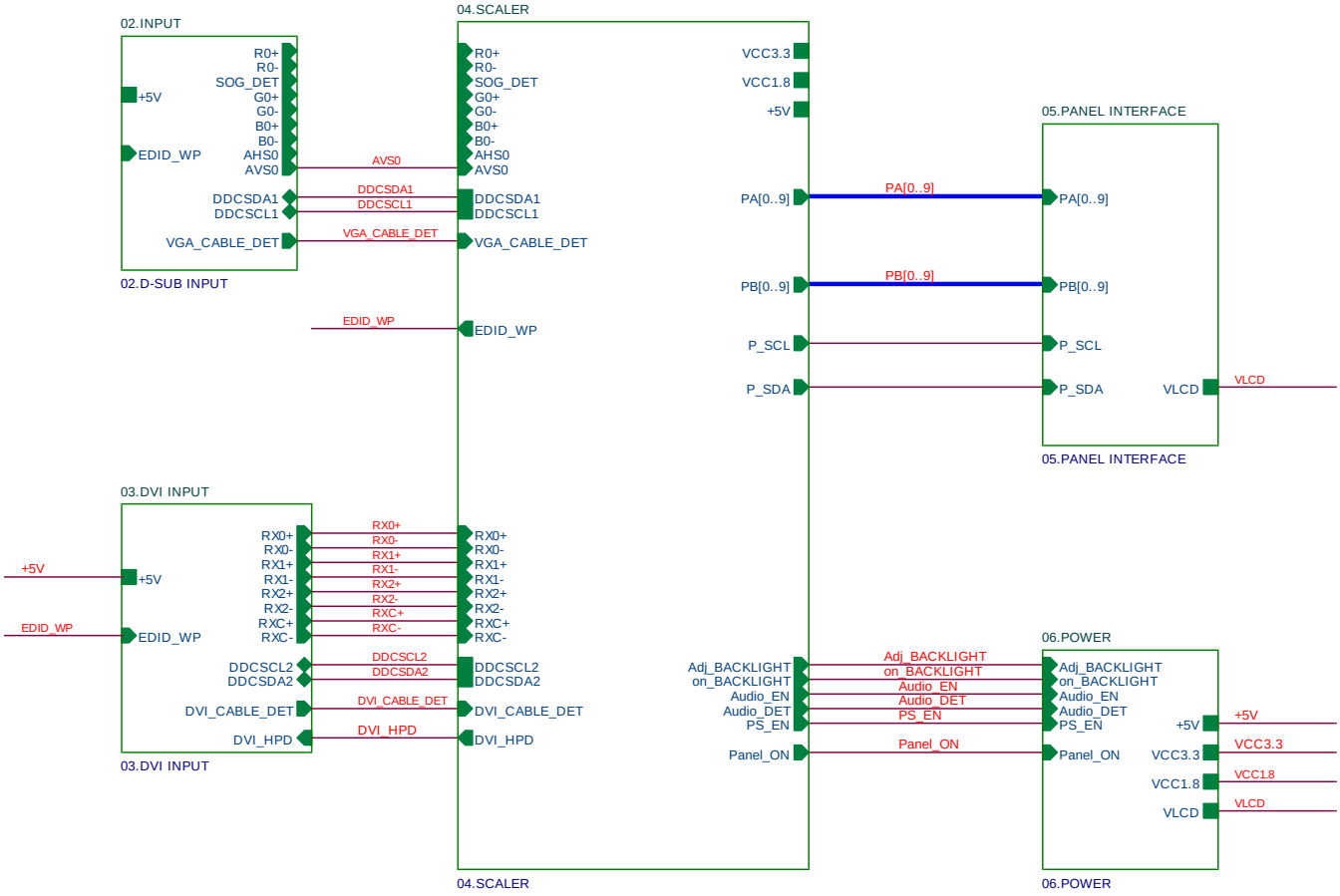
4.3.4 Optical Characteristics

Ta= 25°C, VLCD=5.0V, fV=60Hz fCLK=54.0MHz, IBL=110mA

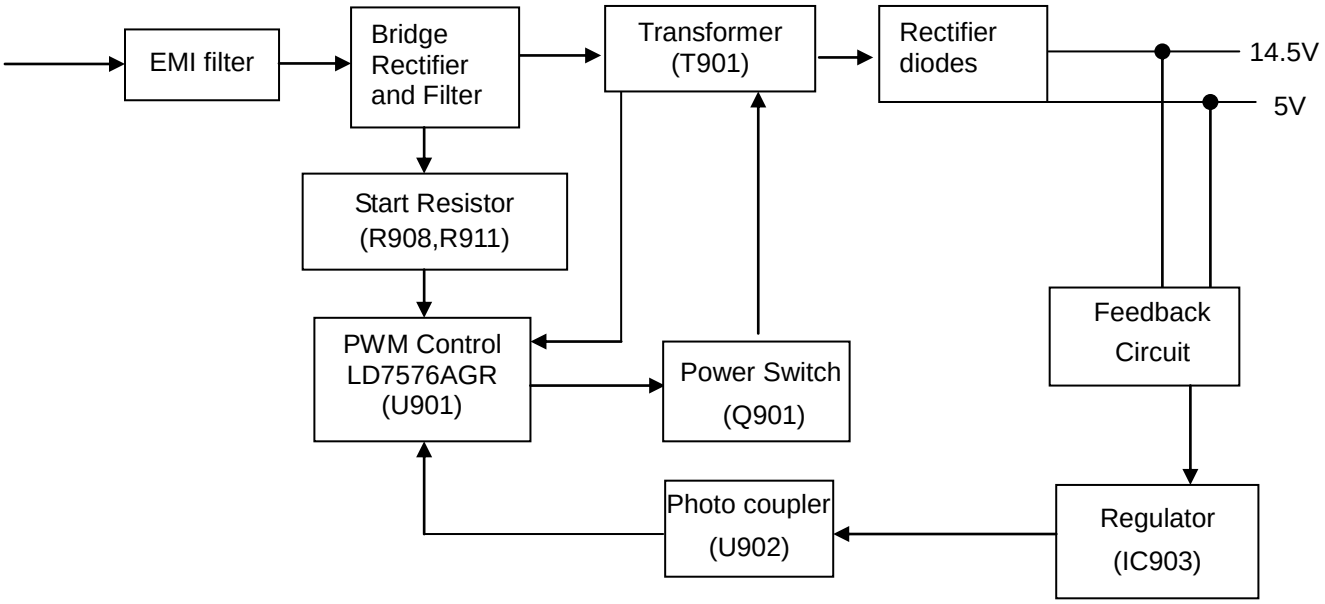
Parameter		Symbol	Values			Units
			Min	Typ	Max	
Contrast Ratio		CR	700	1000	-	
Surface Luminance, white		L_{WH}	200	250	-	cd/m²
Surface Luminance, Black		L_{BL}	-	-	0.6	cd/m²
Luminance Variation		δ_{WHITE} 9P	75	-	-	%
Response Time	Rise Time	Tr_R	-	1.1	2.6	ms
	Decay Time	Tr_D	-	3.9	7.4	ms
Color Gamut			67.5	72	-	%
Color Coordinates [CIE1931]	RED	Rx	Typ -0.03	0.636	Typ +0.03	
		Ry		0.330		
	GREEN	Gx		0.304		
		Gy		0.629		
	BLUE	Bx		0.154		
		By		0.070		
	WHITE	Wx		0.313		
		Wy		0.329		
Viewing Angle (CR>5)						
	x axis, right(ϕ=0°)	θr	75	88		Degree
	x axis, left (ϕ=180°)	θl	75	88		
	y axis, up (ϕ=90°)	θu	70	85		
	y axis, down (ϕ=270°)	θd	70	85		
Viewing Angle (CR>10)						
	x axis, right(ϕ=0°)	θr	70	85		Degree
	x axis, left (ϕ=180°)	θl	70	85		
	y axis, up (ϕ=90°)	θu	60	75		
	y axis, down (ϕ=270°)	θd	70	85		
Crosstalk					1.5	%
Luminance uniformity - Angular dependence (TCO5.0)		LR	-	-	1.73	
Color grayscale linearity		Δu'v'		0.018		

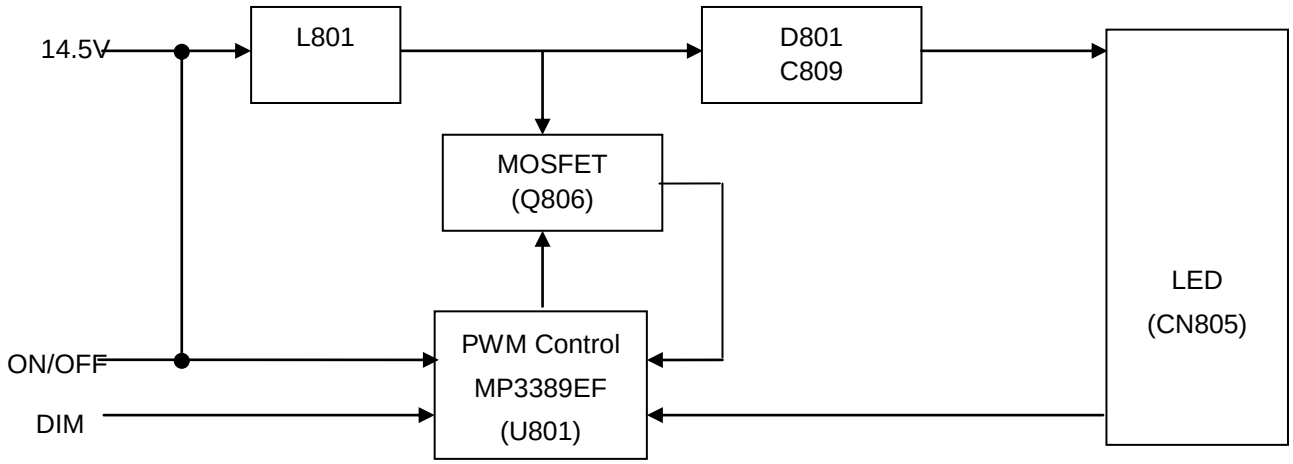
5. Block Diagram

5.1 Main Board



5.2 Power Board

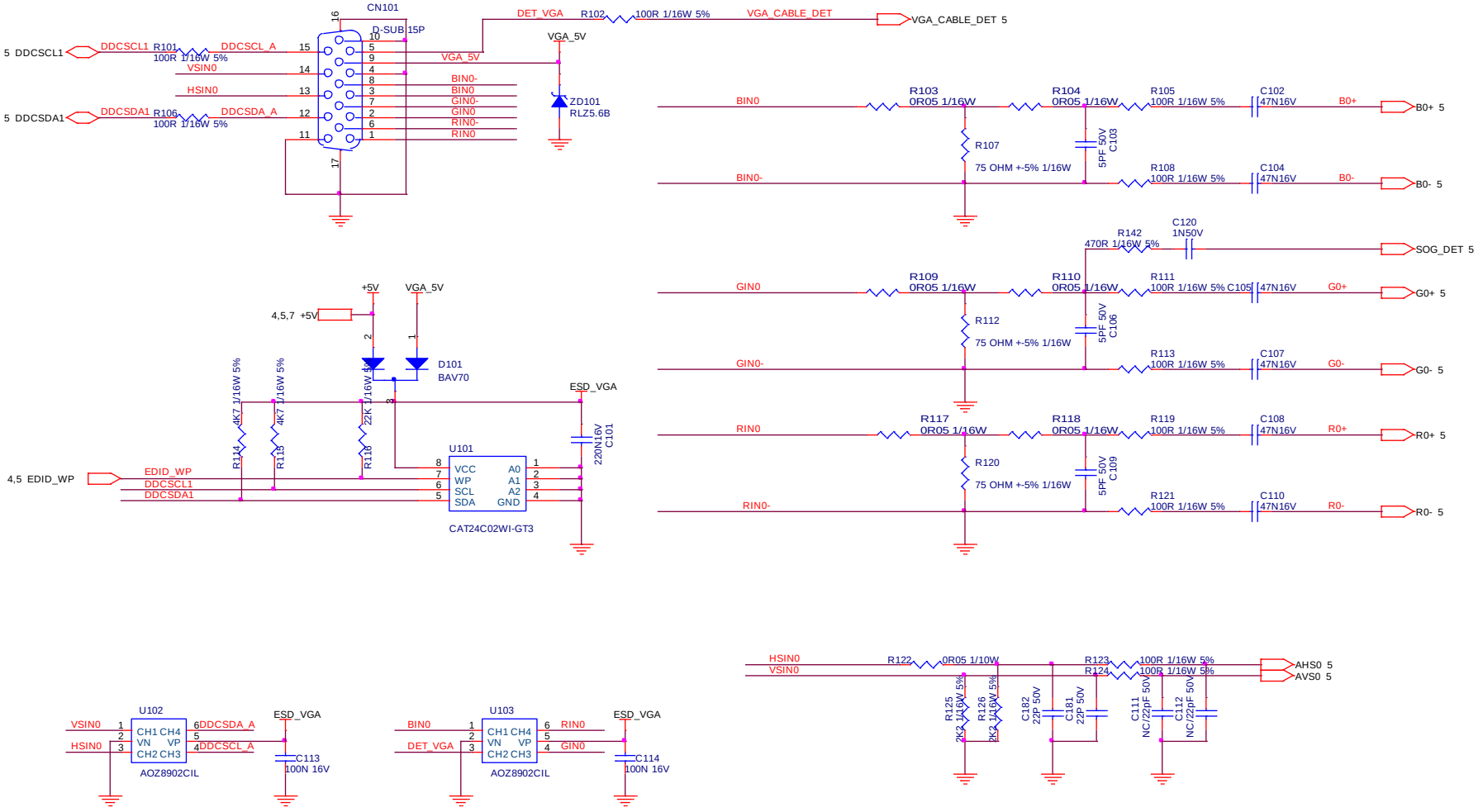




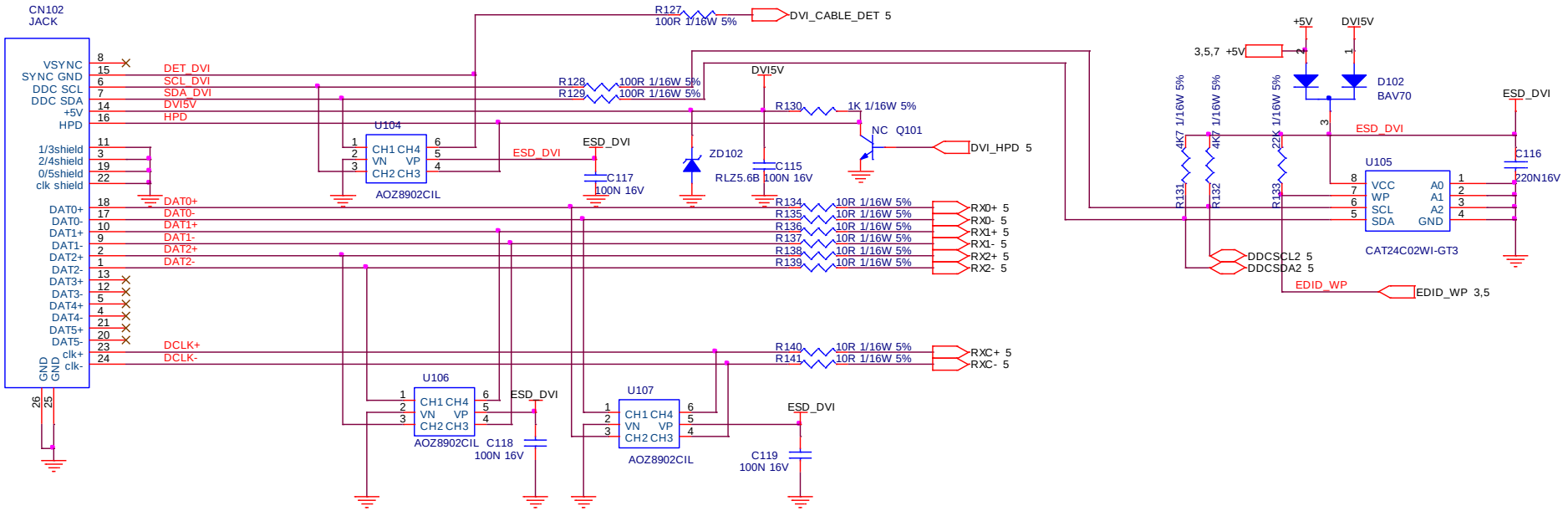
6. Schematic

6.1 Main Board

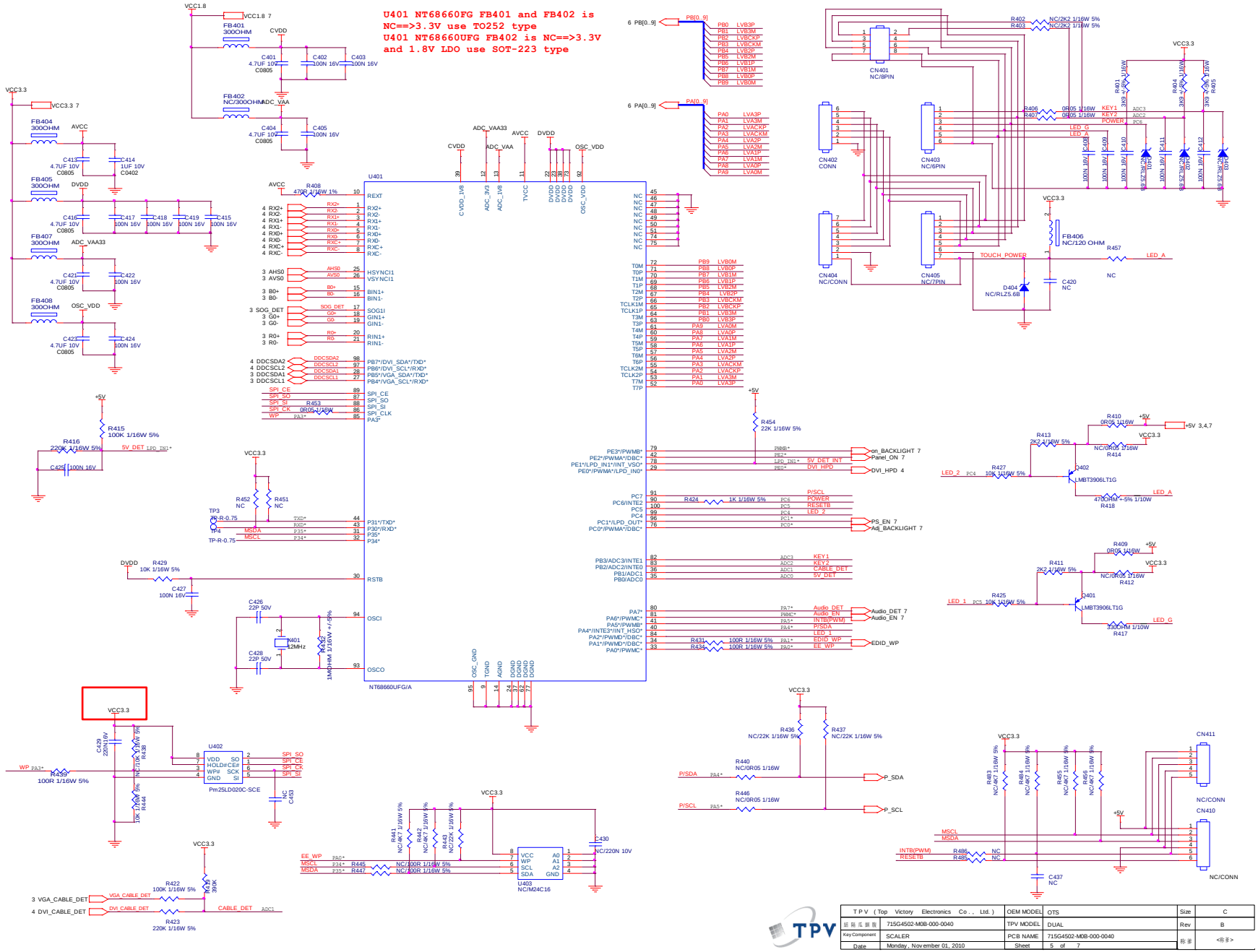
715G4502M01000004C



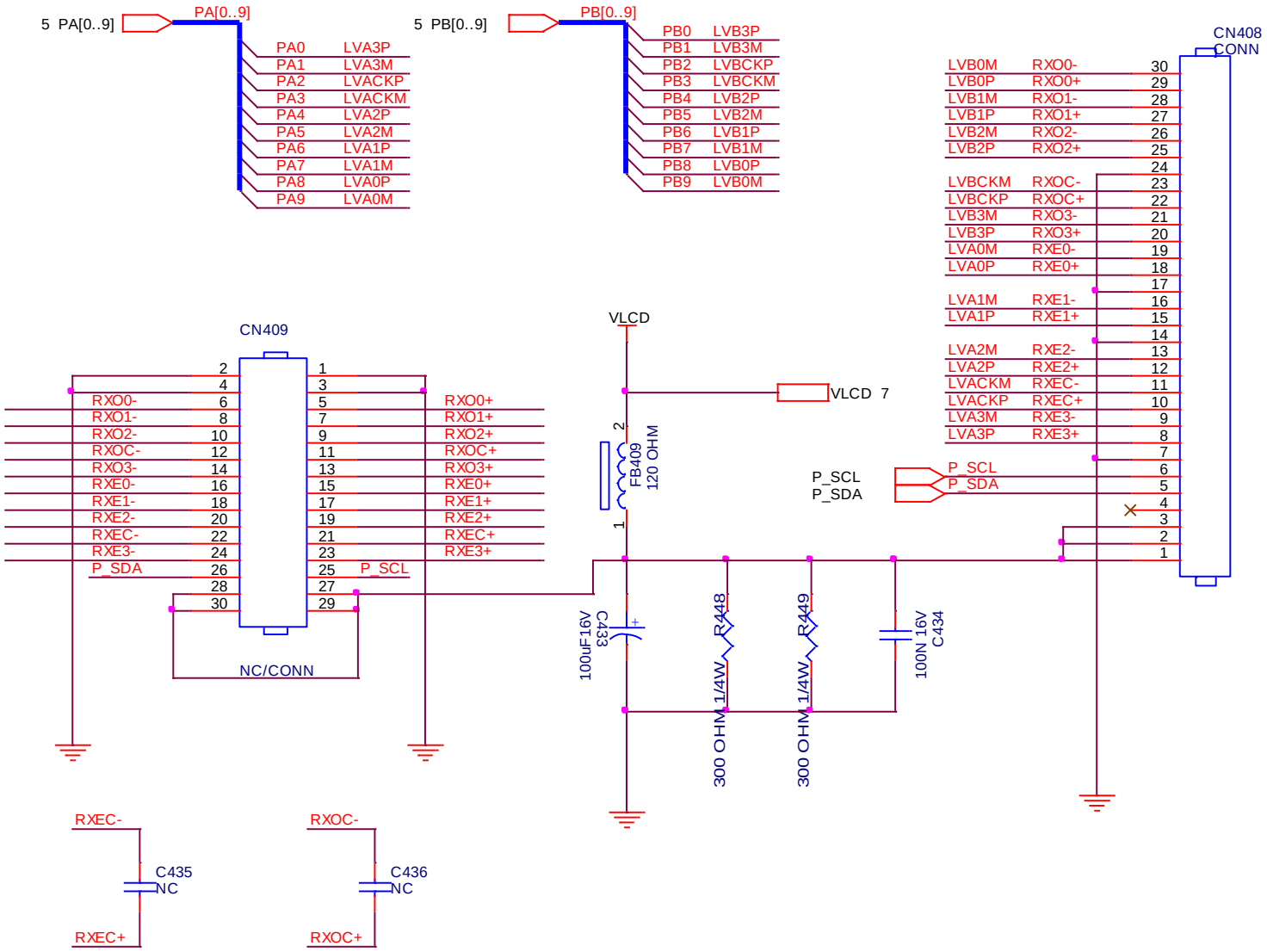
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	OTS	Size	B
結 隔 瓜 綢 腹	715G4502-M0B-000-0040	TPV MODEL	DUAL	Rev	B
Key Component	D-SUB I/O	PCB NAME	715G4502-M0B-000-0040	称 爹	<称爹>
Date	Friday , October 29, 2010	Sheet	3 of 7		



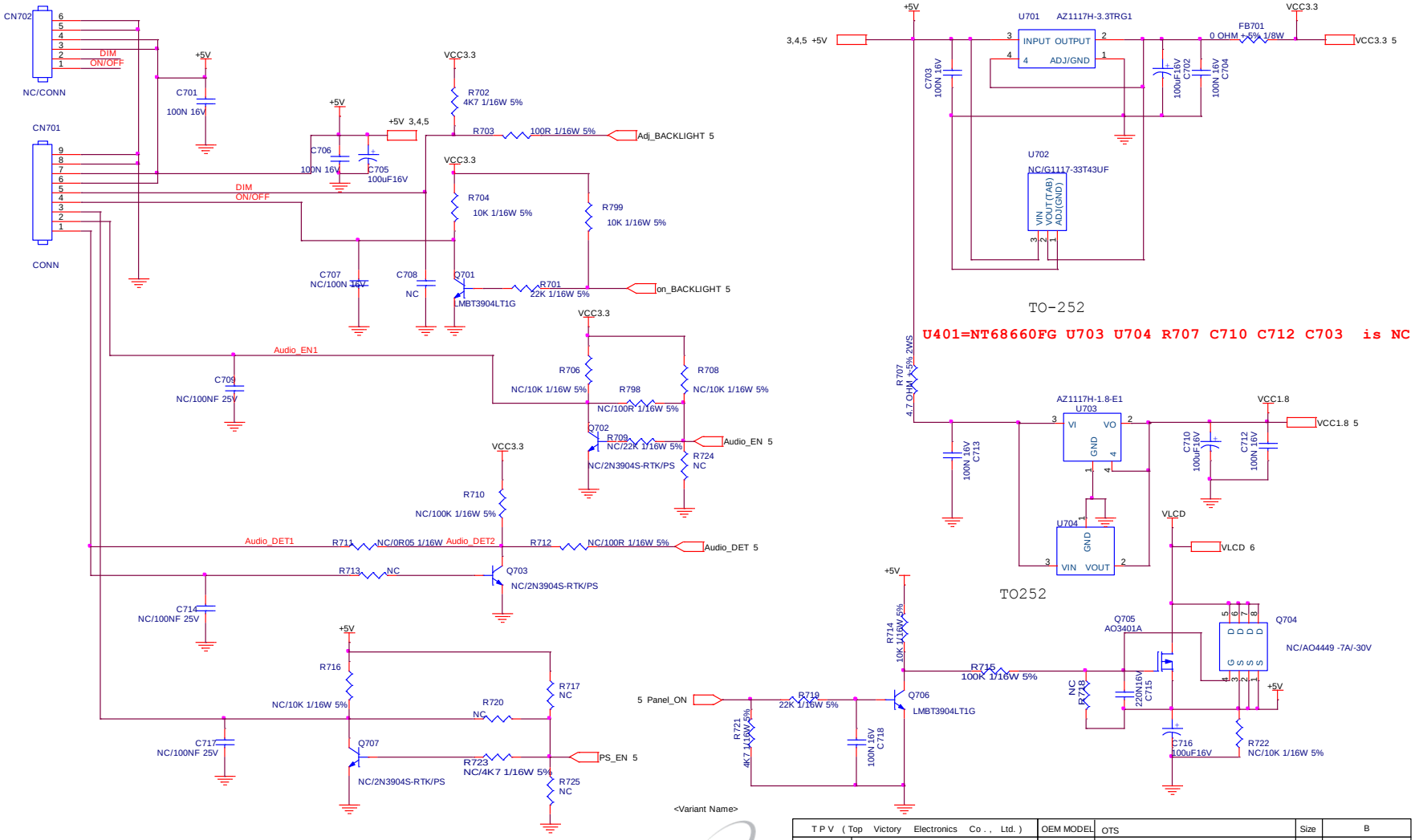
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	OTS	Size	B
結隔瓜綑腹	715G4502-M0B-000-0040	TPV MODEL	DUAL	Rev	B
Key Component	DVI	PCB NAME	715G4502-M0B-000-0040	称爹	<称爹>
Date	Monday, November 01, 2010	Sheet	4 of 7		



T P V (Top Victory Electronics Co . , Ltd.)	OEM MODEL	OTS	Size C
版 權 瓜 屬 頁	TPV MODEL	DUAL	Rev B
Key Component SCALER	PCB NAME	715G4502-M0B-000-0040	張 次 <張次>
Date Monday , November 01, 2010	Sheet	5 of 7	



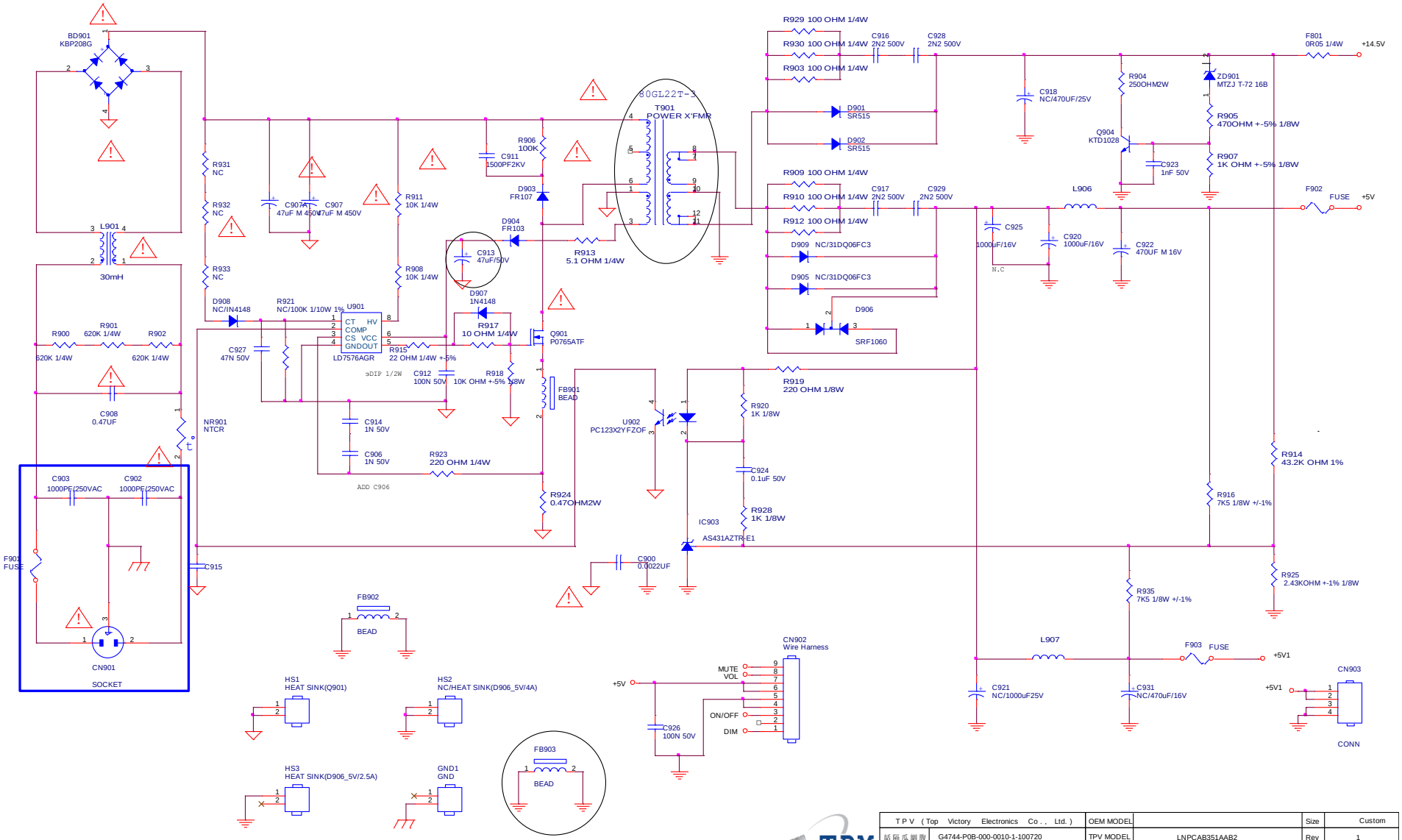
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	OTS	Size	A
結隔瓜網腹	715G4502-M0B-000-0040	TPV MODEL	DUAL	Rev	B
Key Component	LVDS PANEL I/O	PCB NAME	715G4502-M0B-000-0040	称爹	<称爹>
Date	Friday , October 29, 2010	Sheet	6 of 7		


CN702
NC/CONN
DIM
ON/OFF
CN701
CONN
C701
100N 16V
+5V
VCC3.3
R702
4K7 1/16W 5%
R703
100R 1/16W 5%
Adj_BACKLIGHT 5
+5V 3,4,5
C706
100N 16V
C705
100uF16V
R704
10K 1/16W 5%
R799
10K 1/16W 5%
C707
NC/100N 16V
C708
NC
Q701
LMBT3904LT1G
R701
22K 1/16W 5%
on_BACKLIGHT 5
Audio_EN1
C709
NC/100NF 25V
R706
NC/10K 1/16W 5%
R798
NC/100R 1/16W 5%
R708
NC/10K 1/16W 5%
Q702
R709
NC/22K 1/16W 5%
NC/2N3904S-RTK/PS
Audio_EN 5
R724
NC
R710
NC/100K 1/16W 5%
Audio_DET1
R711
NC/0R05 1/16W
Audio_DET2
R712
NC/100R 1/16W 5%
Audio_DET 5
R713
NC
Q703
NC/2N3904S-RTK/PS
C714
NC/100NF 25V
R716
NC/10K 1/16W 5%
R720
NC
R717
NC
C717
NC/100NF 25V
Q707
R723
NC/4K7 1/16W 5%
PS_EN 5
NC/2N3904S-RTK/PS
R725
NC
U701
AZ1117H-3.3TRG1
INPUT OUTPUT
ADJ/GND
3,4,5 +5V
FB701
0 OHM +-5% 1/8W
VCC3.3 5
C703
100N 16V
100uF16V
C702
100N 16V
C704
U702
NC/G1117-33T43UF
VIN
VOUT(TAB)
ADJ(GND)
TO-252
U401=NT68660FG U703 U704 R707 C710 C712 C703 is NC
R707
4.7 OHM +-5% 2WS
AZ1117H-1.8-E1
U703
VI
VO
GND
VCC1.8
VCC1.8 5
C710
100uF16V
C712
100N 16V
C713
100N 16V
U704
GND
VIN
VOUT
VLCD
VLCD 6
TO252
Q705
AO3401A
Q704
NC/AO4449 -7A/-30V
R714
10K 1/16W 5%
R715
100K 1/16W 5%
NC
R718
220N16V
C715
C716
100uF16V
R722
NC/10K 1/16W 5%
5 Panel_ON
R719
22K 1/16W 5%
Q706
LMBT3904LT1G
R721
4K7 1/16W 5%
100N 16V
C718
<Variant Name>
TPV
T P V (Top Victory Electronics Co., Ltd.)
OEM MODEL
OTS
Size
B
715G4502-M0B-000-0040
TPV MODEL
DUAL
Rev
A
Key Component
POWER
PCB NAME
715G4502-M0B-000-0040
<称爹>
Date
Friday, October 29, 2010
Sheet
7 of 7

6.2 Power Board

Adapter

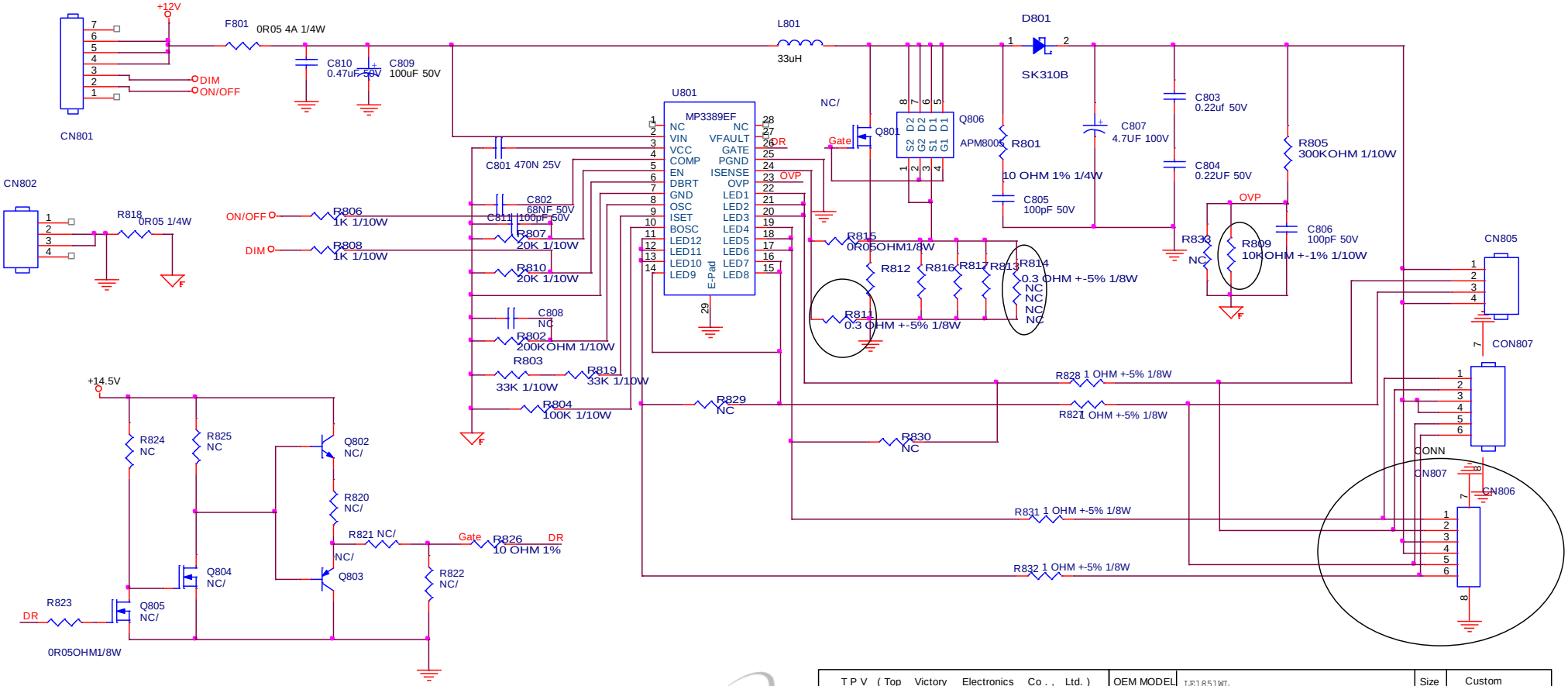
715G4744P01000001C



T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL		Size	Custom
結陽瓜細胞	G4744-P0B-000-0010-1-100720	TPV MODEL	LNPCAB351AAB2	Rev	1
Key Component	01.POWER	PCB NAME	715G4497-P0B-000-0010	称爹	ODM MODEL
Date	Tuesday, March 29, 2011	Sheet	1 of 3		

Converter

715G4013P01002004S

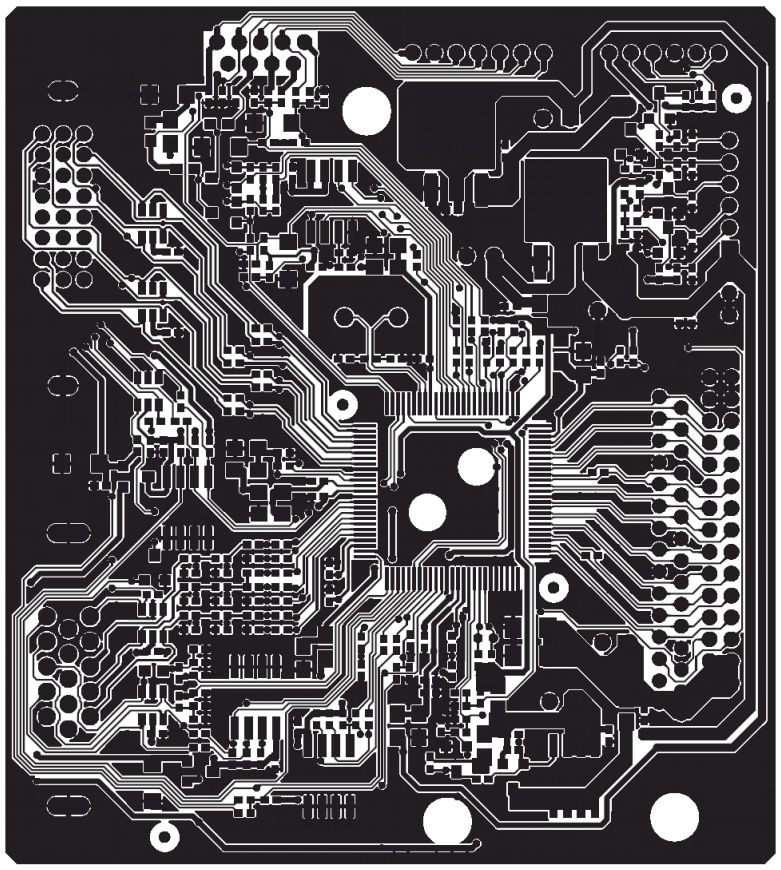


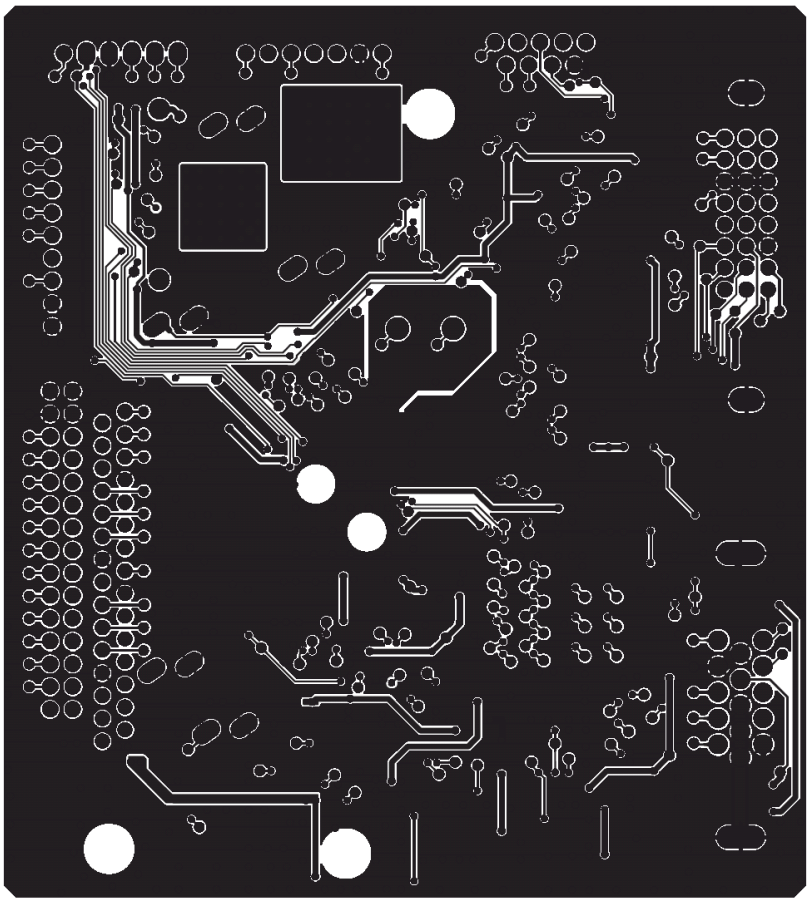
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	LE1851WL	Size	Custom
結 隔 瓜 細 腹	G4013-P0G-001-X-3-100630	TPV MODEL	LNPCA8361AHA1	Rev	G
Key Component	01.CONVERTER	PCB NAME	715G4013-P0G-001-0040	称 爹	ODM MODEL
Date	Wednesday, June 30, 2010	Sheet	1 of 2		

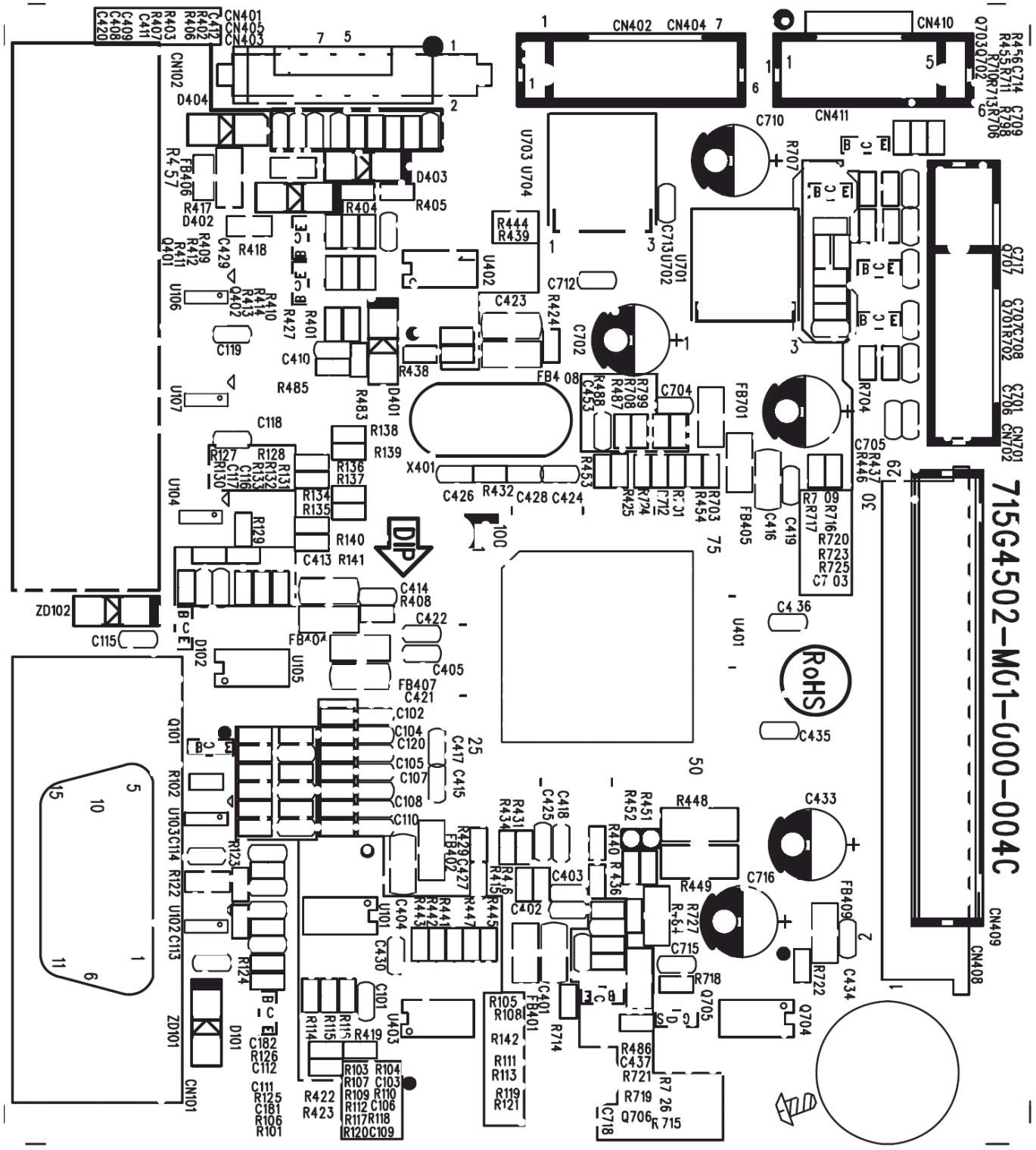
7. PCB Layout

7.1 Main Board

715G4502M01000004C



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D402
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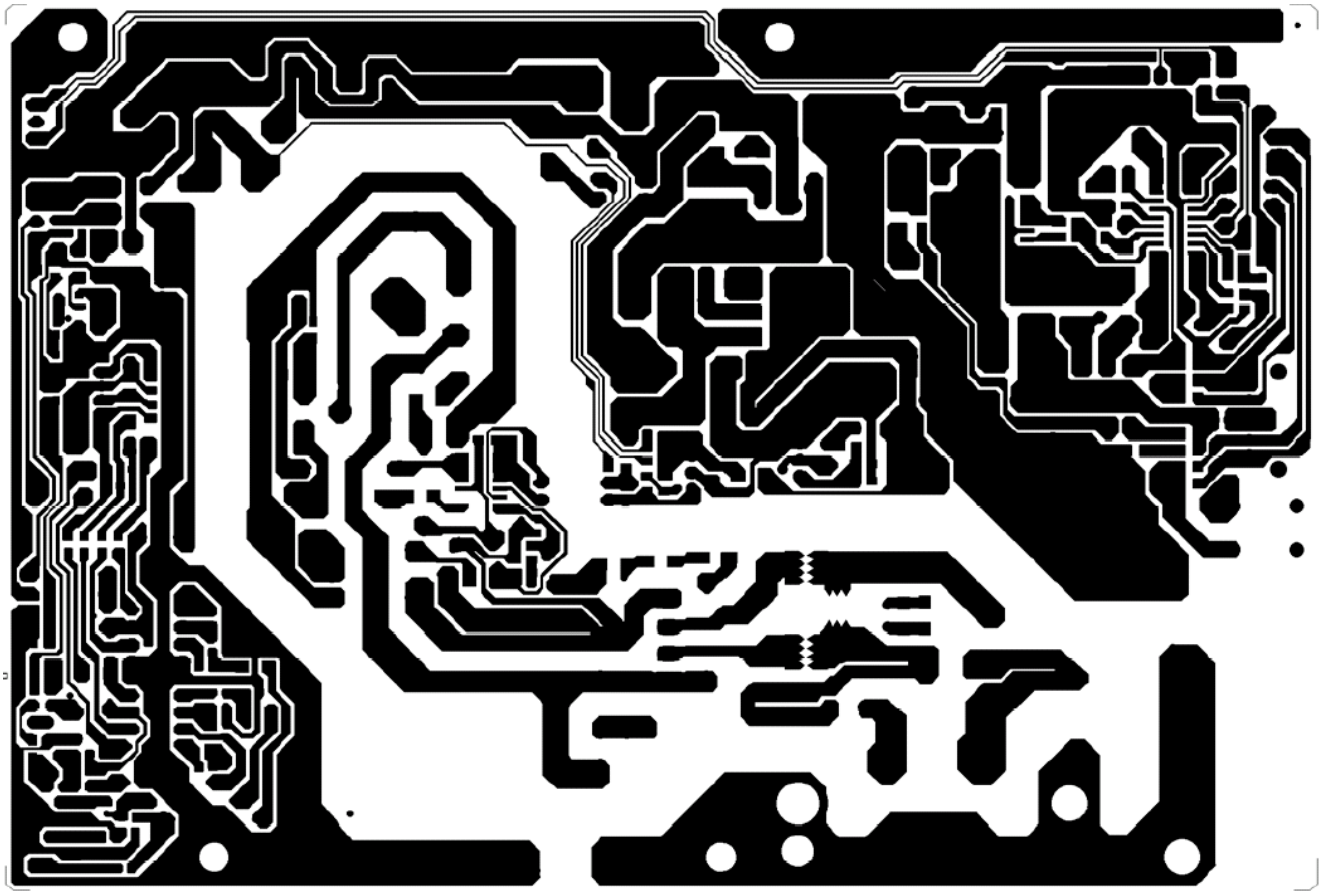
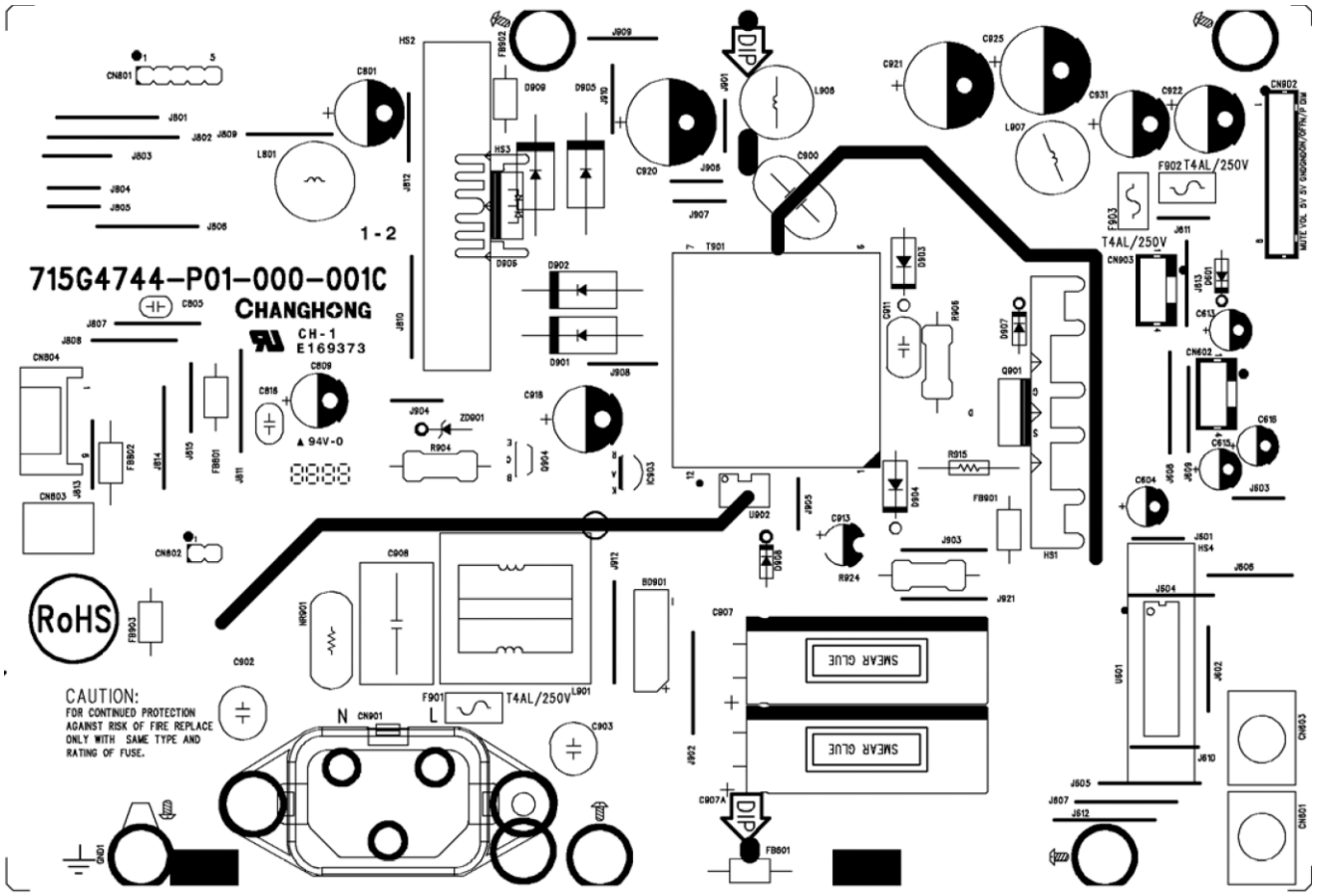
RoHS

7.2 Power Board

Adapter

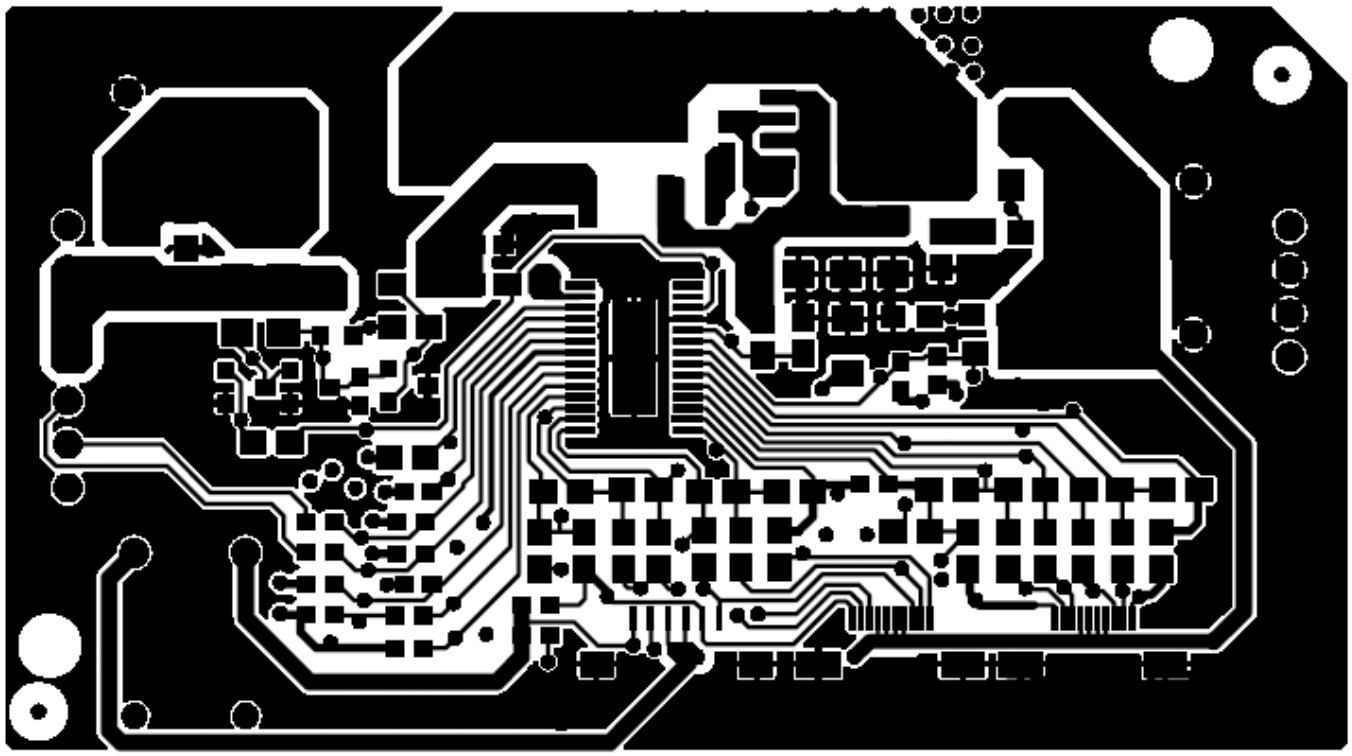
715G4744P01000001C

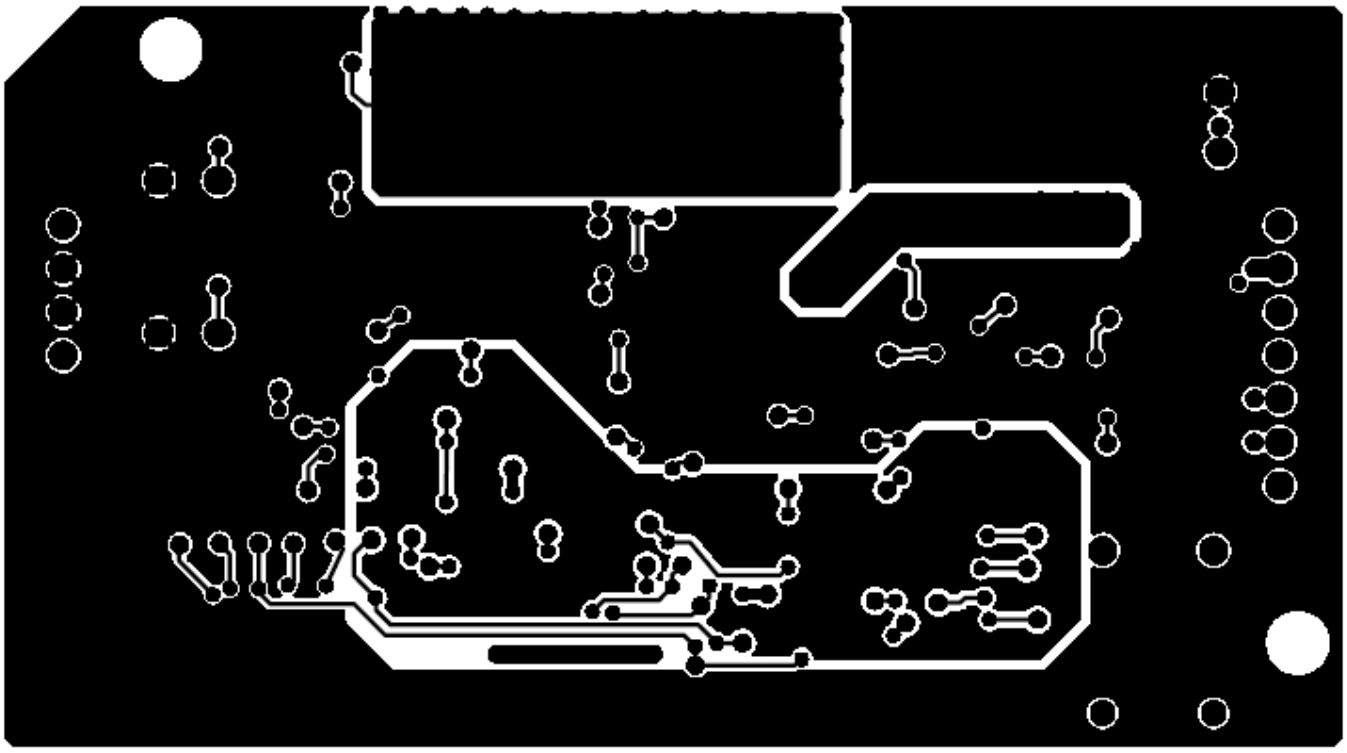


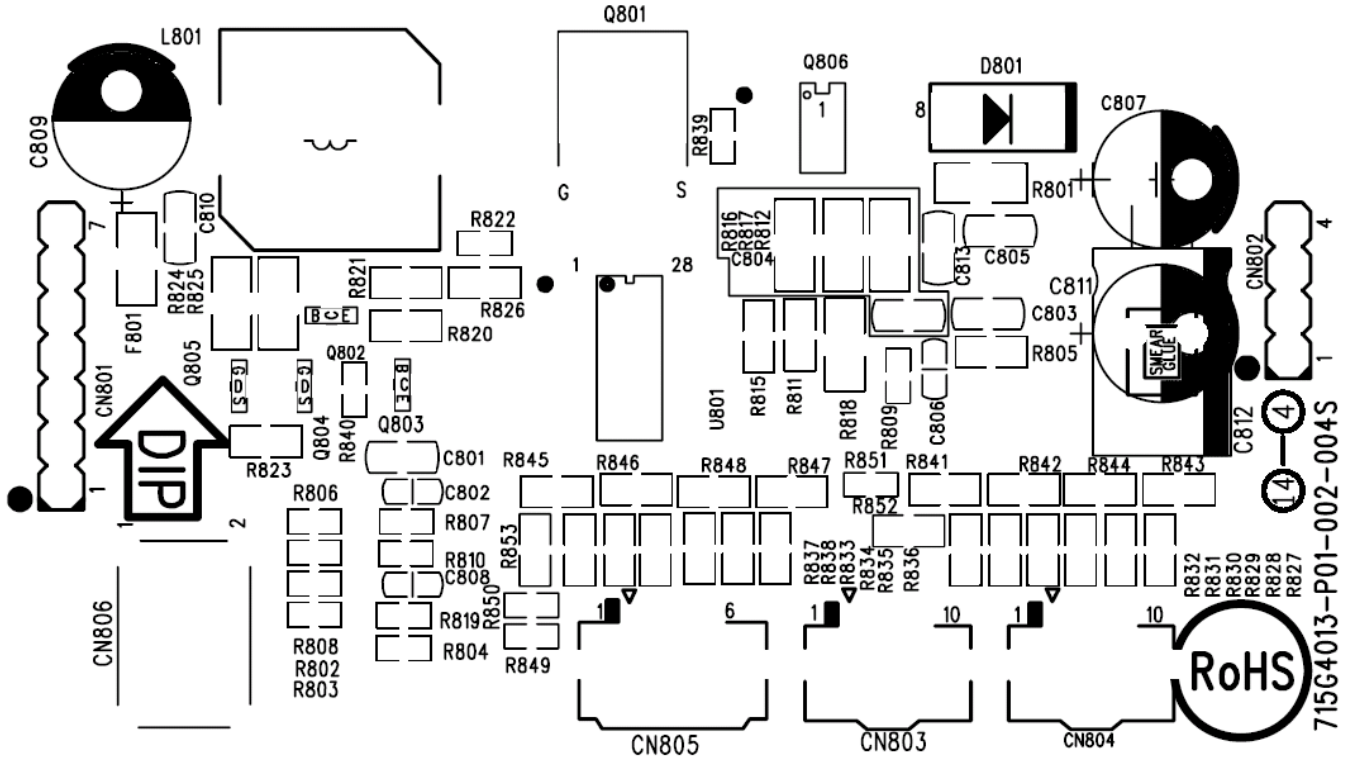


Converter

715G4013P01002004S

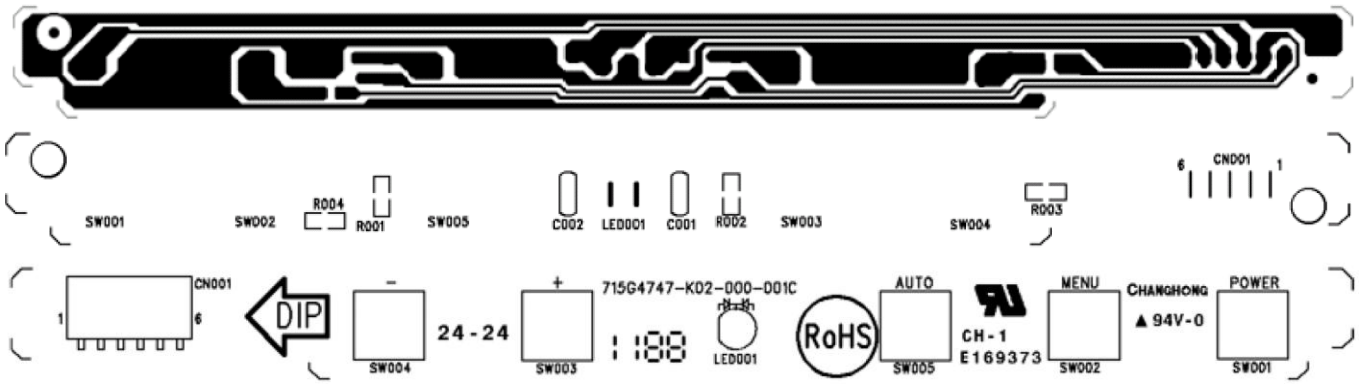






7.3 Key Board

715G4747K02000001C



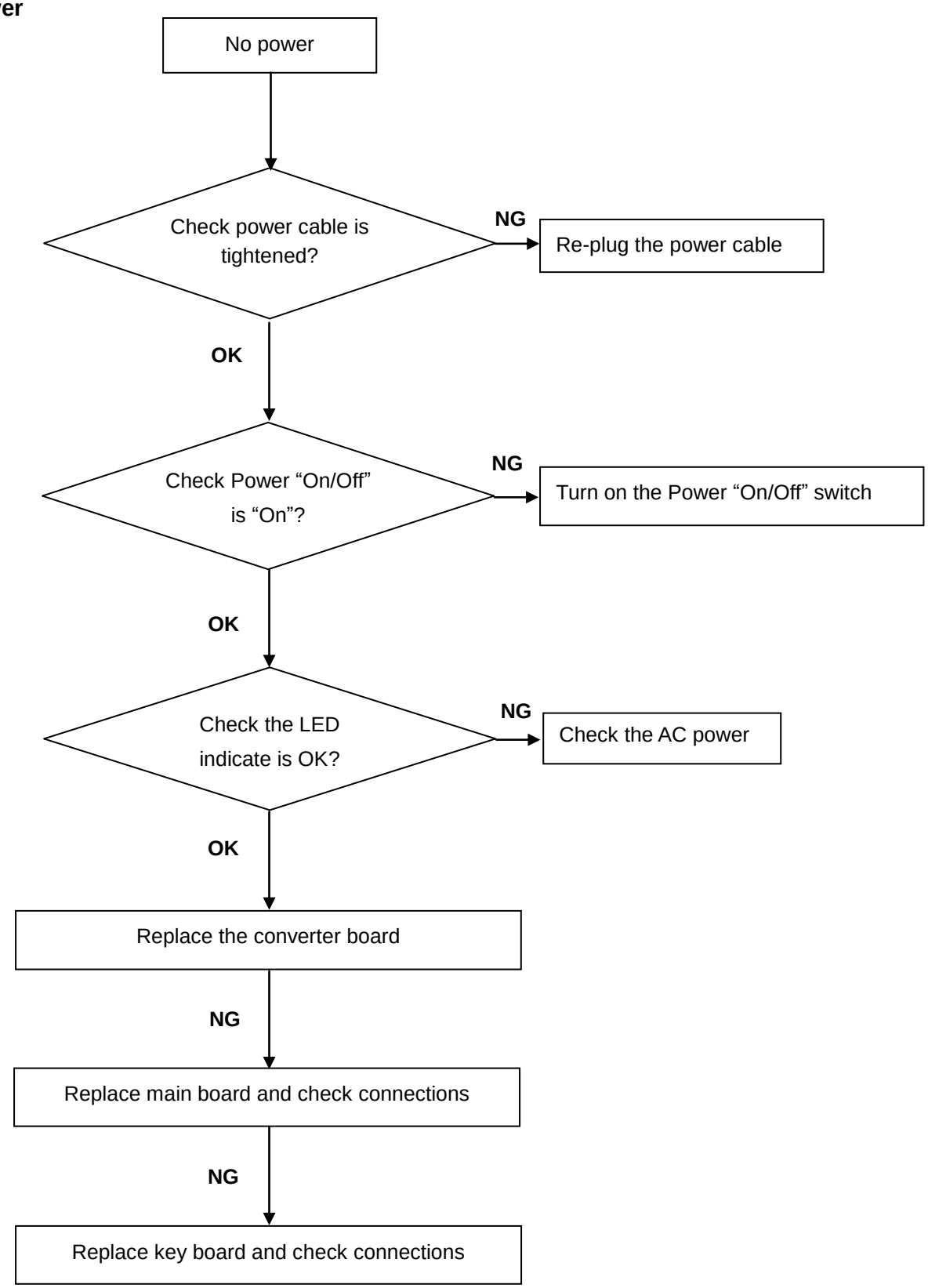
8. Maintainability

8.1 Equipments and Tools Requirement

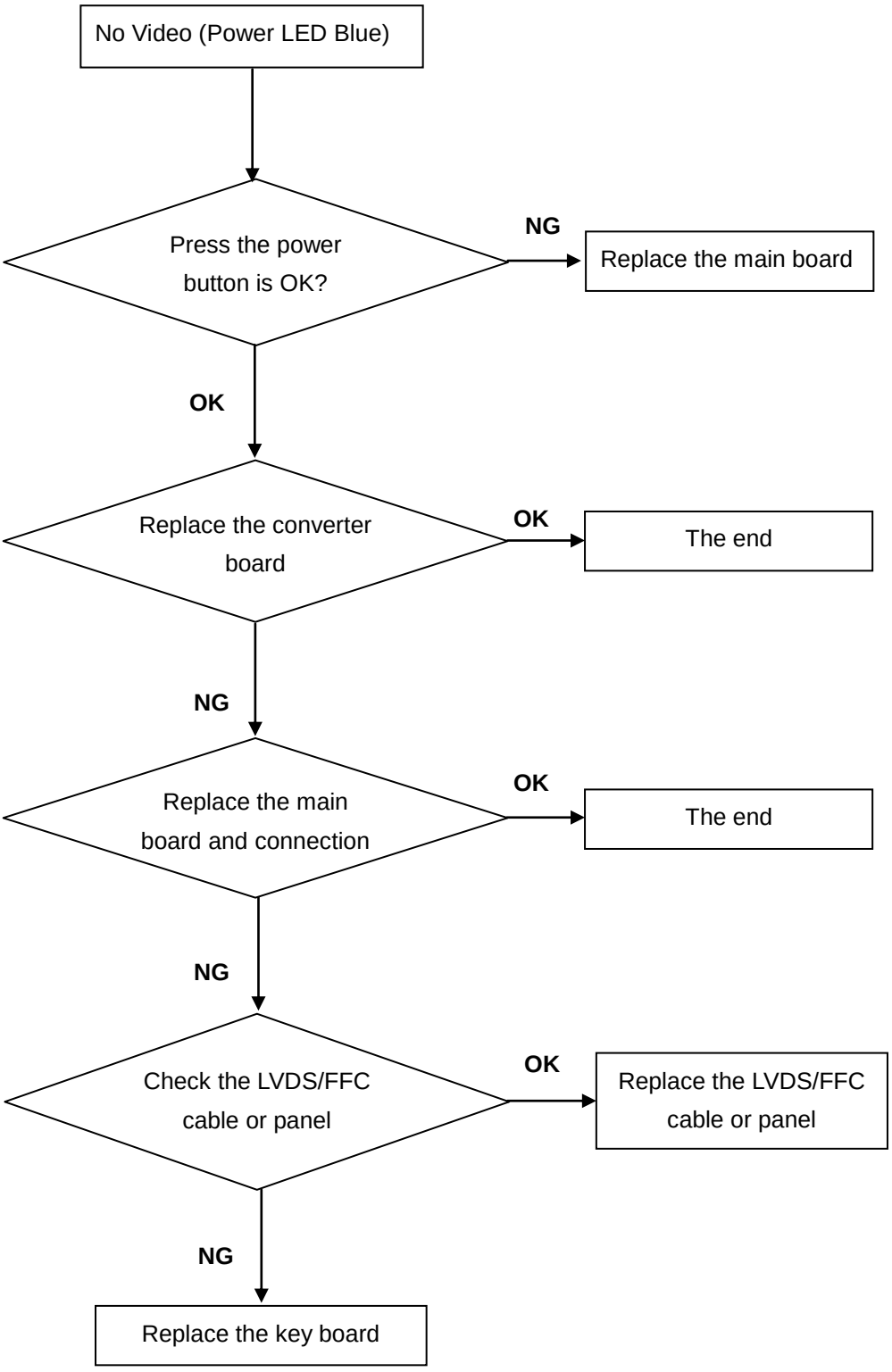
1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

8.2 Trouble Shooting

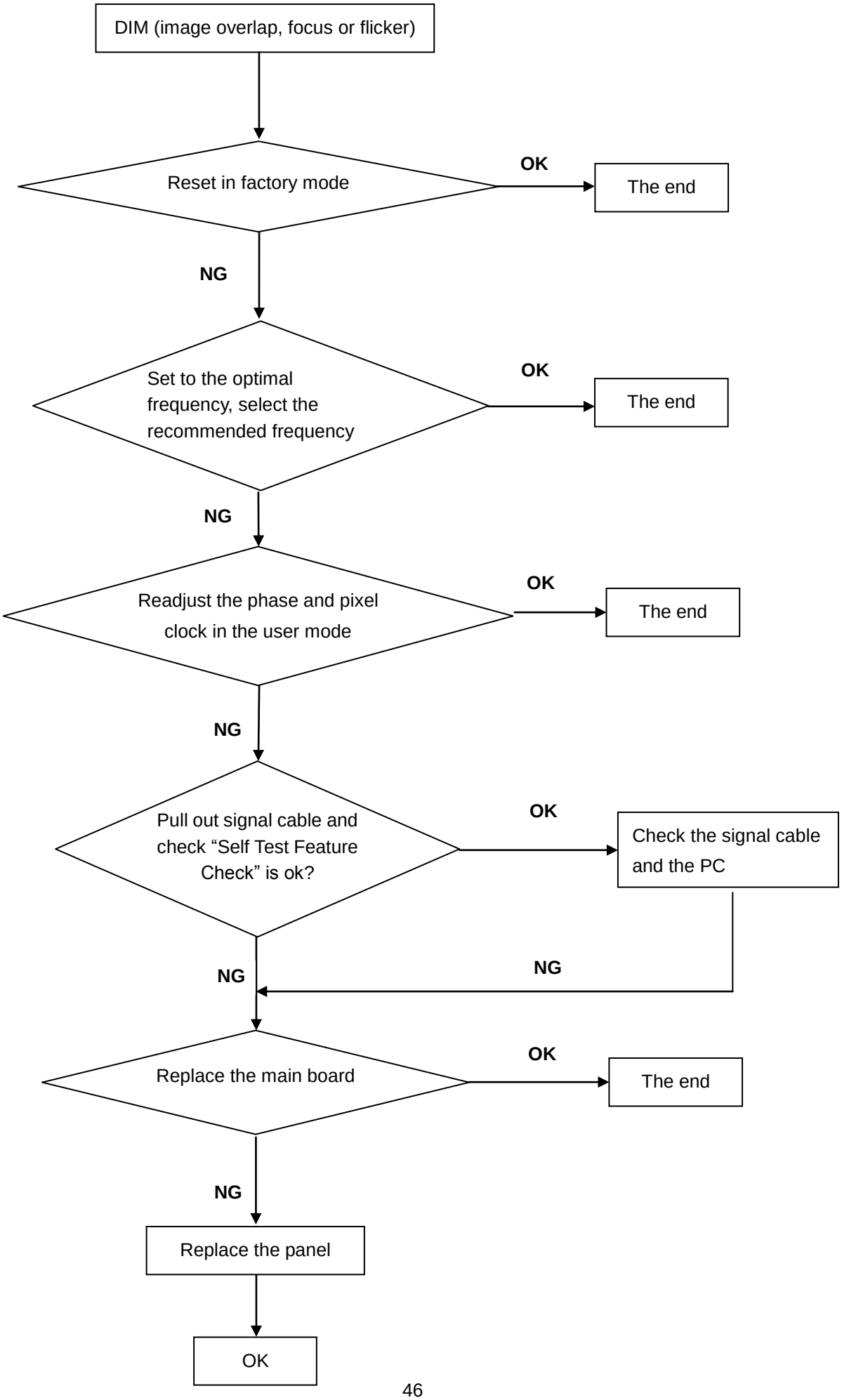
1.No Power



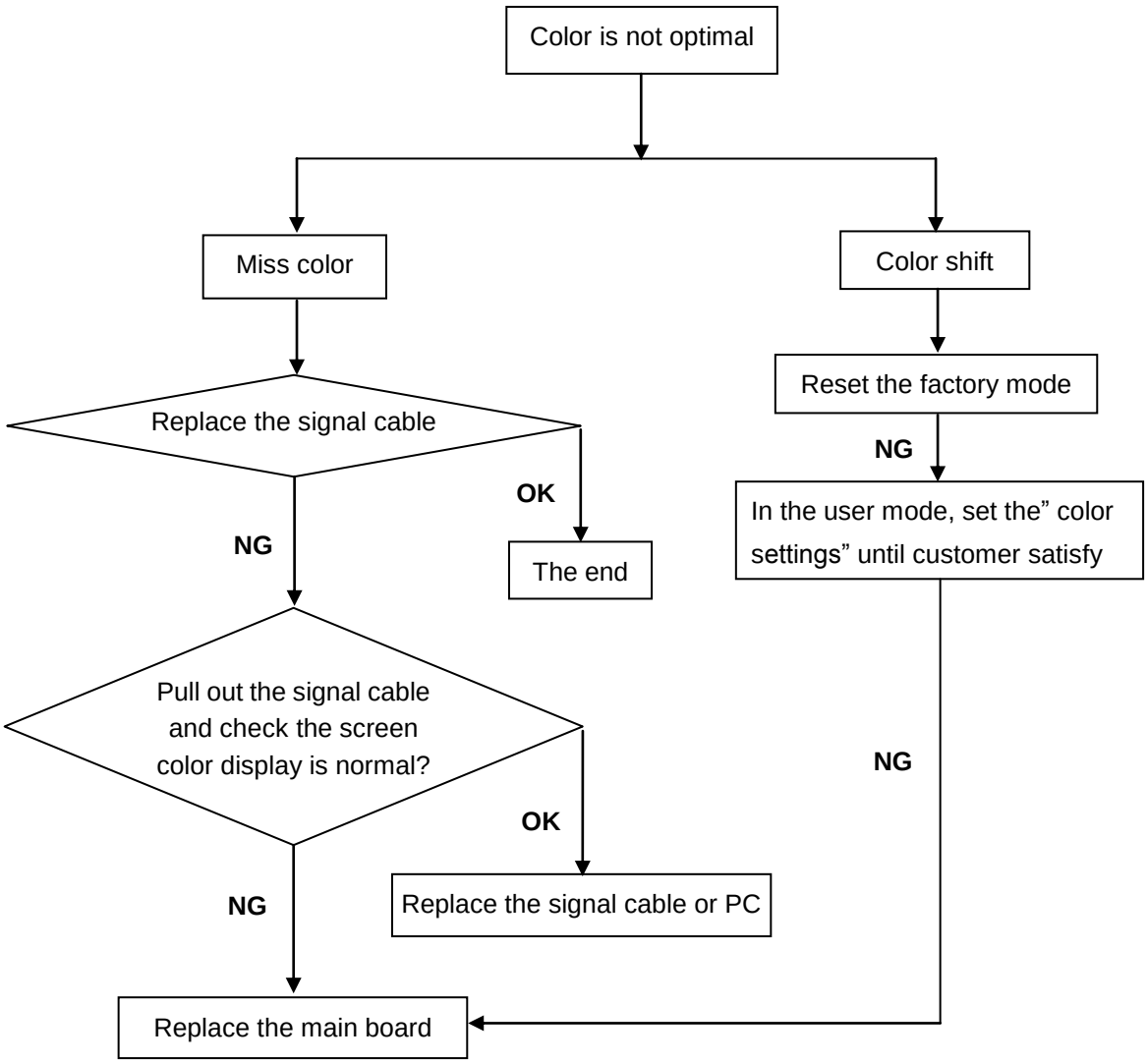
2. No Video (Power LED Blue)



3. DIM


DIM (image overlap, focus or flicker)
Reset in factory mode
OK
The end
NG
Set to the optimal frequency, select the recommended frequency
OK
The end
NG
Readjust the phase and pixel clock in the user mode
OK
The end
NG
Pull out signal cable and check “Self Test Feature Check” is ok?
OK
Check the signal cable and the PC
NG
NG
Replace the main board
OK
The end
NG
Replace the panel
OK

4. Color is not optimal



9.White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment.

How to setting MEM channel you can reference to chroma 7120 user guide or simple use “SC” key and “NEXT” Key to modify xyY value and use “ID” key to modify the TEXT description Following is the procedure to do white-balance adjust .

1. Setting the color temp.

A. 6500K:

Warm color temp. parameter is x=313±30， y=329±30

B. 7300K

Normal color temp. parameter is x=302±30， y=318±30

C. 9300K

Cool color temp. parameter is x=283±30，y=297±30

D. sRGB

sRGB color temp. parameter is x=313±30， y=329±30

2. Enter into the factory mode:

Press the MENU button,Pull out the power cord, then plug the power cord. Then the factory OSD will be at the left top of the panel.

3. Biase adjustment:

Set the Contrast to 50; Adjust the Brightness to 90.

4. Gain adjustment:

A. Adjust Warm (6500K) color-temperature

1. Switch the chroma-7120 to RGB-Mode (with press “MODE” button)
2. Switch the MEM.channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x=313±30， y=329±30
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

B. Adjust Normal (7300K) color-temperature

1. Switch the chroma-7120 to RGB-Mode (with press “MODE” button)
2. Switch the MEM.channel to Channel 4(with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x=302±30， y=318±30
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

C. Adjust Cool (9300K) color-temperature

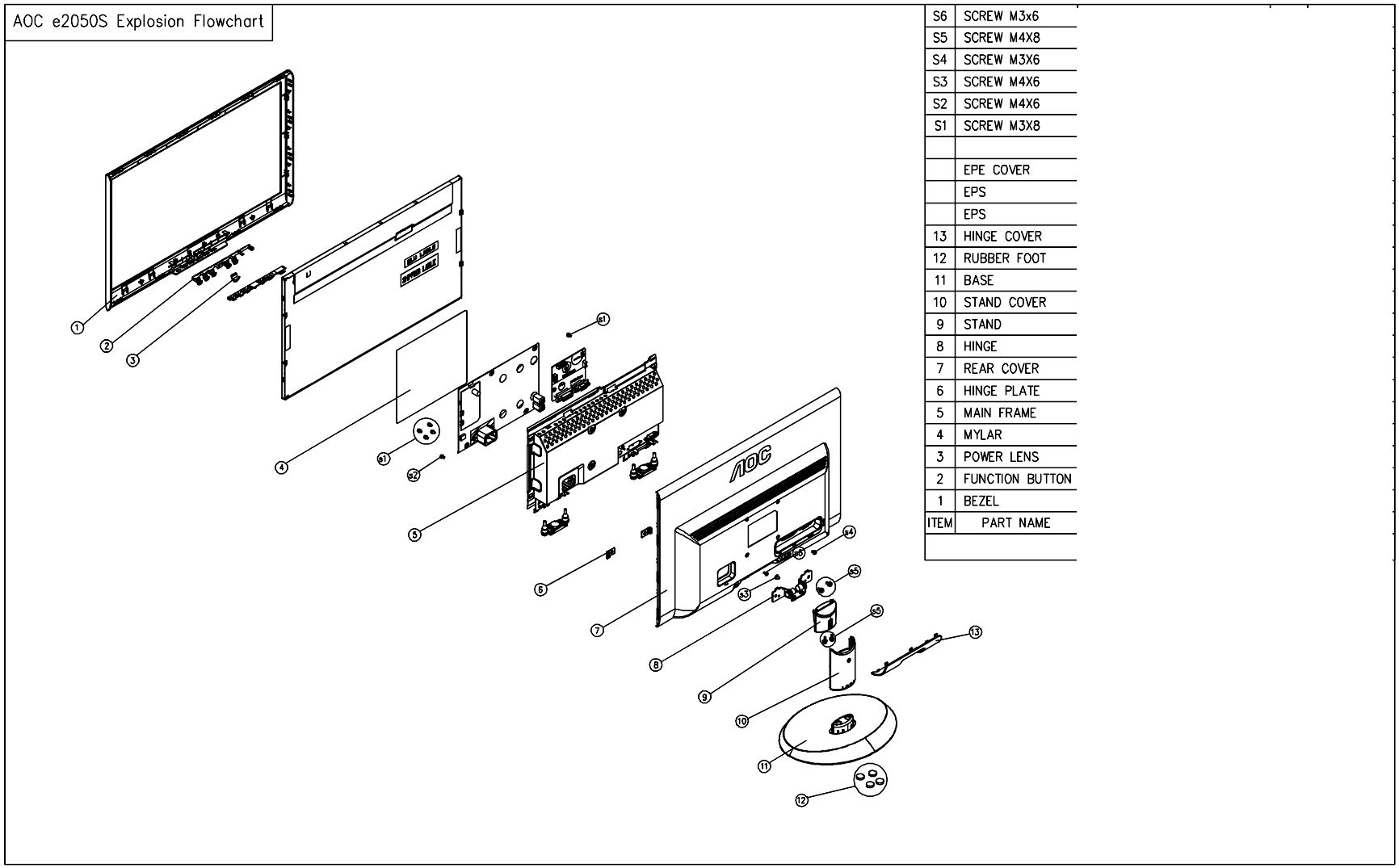
1. Switch the Chroma-7120 to RGB-Mode (with press “MODE” button)
2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x=283±30，y=297±30
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

D. Adjust sRGB color-temperature

1. Switch the chroma-7120 to RGB-Mode (with press “MODE” button)
2. Switch the MEM.channel to Channel 10 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x=313±30， y=329±30
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4, 5, 6) until chroma 7120 RGB value meet the tolerance =100±2

E. Turn the Power-button off to quit from factory mode.

10. Monitor Exploded Views



11. BOM List

Note: The parts information listed below are for reference only, and are subject to change without notice. Please go to http://cs.tpv.com.cn/hello1.asp for the latest information.

TAB2N26EAGA1DNE

Location	Part No.	Description	Remark
	052G 1207 A	Aluminum Foil Tape	
	052G 1211 B	Conductive Tape 85mm *40mm *0.09mm	
	052G 2191 A	PAPER TAPE	
	052G6019 1	INSULATING TAPE	
HDCP-SMT	070GHDCP500HDC	HDCP CODE	
E07801	078G025A553 VA	SPEAKER 4 OHM 2.5W 62*20 150+275	
E07801	078G025A553 YA	SPEAKER 4 OHM 2.5W 62*20 150+275	2nd source
E09504	095G176J 6W01	FFC CABLE 6P 215 1.0	
E09501	095G179J30NE37	FFC CABLE 30PIN 175mm 1.0mm	
	0D1G1030 8120	screw	
	0M1G 930 8 47 CR3	SCREW 3x8	
	0M1G1140 8120	SCREW 4x8	
	0Q1G 140 12120	SCREW 4X12	
	0Q1G 330 8120	SCREW	
E750	750GBG200W3C11N000	LCD LM200WD3-TLC1 KR LGD	
	A15G1586301801	MAIN FRAME FOR 50TH 20W	
	A15G1587101	HINGE PLATE	
	A33G1181ABJ 1L0100	FUNCTION BUTTON FOR 50TH	
	A33G1182 1 1L0100	POWER LENS FOR 50TH	
	A33G1183ABJ 1L0100	STAND TOP FOR 50TH 18.5W	
	A33G1184ABJ 1L0100	HINGE COVER FOR 50TH 18.5W	
	A34G2530ABJ 1B0100	STAND COVER	
	A34G2531AED 1B0130	BASE FOR 50TH 18.5W	
	A37G0241013	HINGE 20	
	ADPCB1603HG1	ADAPTER BOARD	
	AM1G1740 10125	SCREW	
	H40G 45762413B	P/N LABEL FOR BASE	
	H40G 58461555B	win7+EPA+SILVER+TCO05 LABE	
	H44GA016101	EPS	
	H44GA016201	EPS	
	H44GA016615 4A	e2050Sda carton	
	H45G 87 1 23	EPE COVER	
	H52G1801 16006	insulating sheet	
	H70G20C1615 2B	e2050Sda CD MANUAL	
	KEPCAHB5	KEY BOARD	
	Q34G7391AEDF1B0130	BEZEL	
	Q34G7392ABJ 8B0100	REAR COVER FOR 50TH 20W	

	Q40G 58162435A	LABEL	
	Q45G 76 28 H A	PE BAG FOR MANUAL	
	Q50G 4 10	TIE (Y1900221)	
	Q52G 1185 99	TAPE	
	Q52G6019 14	TAPE	
E09504	S95G176T6W01	FFC CABLE 6P 215 1.0	2nd source
E09501	S95G179T30NE37	FFC CABLE P1.0 30P 175MM	2nd source
	756GHBCB A5011	MAIN BOARD-CBPCBN2A1H1	
U402	056G2233 11	IC Pm25LD020C-SCE SIOC-8(150mil) 2M	
SMTCA-U402	100GANGA007W11	MCU ASS'Y-CBPCBN2A1H1	
	808GE2050SDAAUS	E2050SDA Australia ASS'Y	
E08904	089G 173 56 4B	AUDIO CABLE	
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G412A15NIS3	AC POWER CORD 1500mm	
	H40G 001624 2A	CARTON LABEL BARCODE 2	
	H40G 20N61535A	e2050S PRC AP ID LABEL	
	H41G780061558C	澳洲 warranty	
	808GE2050SDAHKG	E2050SDA HongKong ASS'Y	
E08904	089G 173 56 4B	AUDIO CABLE	
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G410A15N HL	AC POWER CORD 1500	
E08901	089G410A15N IS	AC POWER CORD 1500	2nd source
	H40G 001624 2A	CARTON LABEL BARCODE 2	
	H40G 20N61535A	e2050S PRC AP ID LABEL	
	H41G780961529A	AP WARRANTY booklist	
	808GE2050SDAINA	E2050SDA Indonesia ASS'Y	
E08904	089G 173 56 4B	AUDIO CABLE	
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G404A15N HL	AC POWER CORD 1500mm	

E08901	089G404A15N IS	AC POWER CORD 1500	2nd source
	H26G 800504 2B	barcode	
	H40G 18N61562A	e950Sw INA ID LABEL	
	H40G0002615 9A	e2050Sda 印尼 carton label	
	H41G1800615 1B	印尼 manual	
	H41G780061583A	印尼 warranty card	
	808GE2050SDAPHI	E2050SDA Philippines ASS'Y	
E08904	089G 173 56 4B	AUDIO CABLE	
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G402A15N HL	AC POWER CORD 1500mm	
E08901	089G402A15N IS	AC POWER CORD 1500MM	2nd source
	H40G 001624 2A	CARTON LABEL BARCODE 2	
	H40G 20N61535A	e2050S PRC AP ID LABEL	
	H41G780961529A	AP WARRANTY booklist	
	808GE2050SDARSA	E2050SDA South Africa ASS'Y	
E08904	089G 173 56 4B	AUDIO CABLE	
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G419A15N IS	AC POWER CORD 1500MM	
	H40G 001624 2A	CARTON LABEL BARCODE 2	
	H40G 20N61535A	e2050S PRC AP ID LABEL	
	H41G780961529A	AP WARRANTY booklist	
	808GE2050SDATHA	E2050SDA Thailand ASS'Y	
E08904	089G 173 56 4B	AUDIO CABLE	
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G402A15N HL	AC POWER CORD 1500mm	
E08901	089G402A15N IS	AC POWER CORD 1500MM	2nd source
	H40G 001624 2A	CARTON LABEL BARCODE 2	
	H40G 20N61535A	e2050S PRC AP ID LABEL	
	H41G780961530A	AOC 泰国 warranty card	

	808GE2050SDATPE	E2050SDA Chinese Taipei ASS'Y	
E08904	089G 173 56 4B	AUDIO CABLE	
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G420A15N HL	AC POWER CORD 1500	
E08901	089G420A15N IS	AC POWER CORD 1500MM TAIWAN	2nd source
	H26G 800504 2B	barcode	
	H40G 18N61561A	e950Sw TW ID LABEL	
	H40G 58261572A	AOC TW WARRANTY LABEL	
	H40G0002615 3A	e2050Sda TW carton label	
	H41G780961540A	TW WARRANTY BOOKLIST	
	808GE2050SDAUAE	e2050Sda United Arab Emirates ASS'Y	
E08904	089G 173 56 4B	AUDIO CABLE	
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G404A15N HL	AC POWER CORD 1500mm	
E08901	089G404A15N IS	AC POWER CORD 1500	2nd source
	H40G 001624 2A	CARTON LABEL BARCODE 2	
	H40G 20N61535A	e2050S PRC AP ID LABEL	
	H41G780961529A	AP WARRANTY booklist	
	808GE2050SDAVIE	E2050SDA Viet Nam ASS'Y	
E08904	089G 173 56 4B	AUDIO CABLE	
E08902	089G 715CAAE01	SIGNAL CABLE	2nd source
E08902	089G 715GAAE01	SIGNAL CABLE	2nd source
E08902	089G 715HAAE01	SIGNAL CABLE	
E08903	089G1745CAA 9	DVI CABLE 1500	2nd source
E08903	089G1745GAA 9	DVI CABLE	2nd source
E08903	089G1745HAA 9	DVI CABLE 1.5M	
E08901	089G404A15N HL	AC POWER CORD 1500mm	
E08901	089G404A15N IS	AC POWER CORD 1500	2nd source
	H40G 001624 2A	CARTON LABEL BARCODE 2	
	H40G 20N61535A	e2050S PRC AP ID LABEL	
	Q41G78D161522A	Vietnam warranty	
GND1	009G6005 1	GROUND TERMINAL	
CN602	033G3802 4B Y L	CONNECTOR 4P 2.0	
U902	056G 139 3A	PC123Y22FZOF SHARP	

U601	056G 616 85	AUDIO APA2603JI-TUG 3W DIP-16	
NR901	061G 5810T	RST NTCR 8 OHM +-20% 4A 13mm THINKING	
C908	063G107K474 6S	0.47UF +-10%	
C902	065G305M1023BW	CAP Y2 1NF 20% 250V Y5U	
C903	065G305M1023BW	CAP Y2 1NF 20% 250V Y5U	
C900	065G306M2222BP	CAP Y1 2.2NF 20% 250V Y5P	
C907A	067G 40Z47015K	EC 47UF 20% 450V 12.5*35	
C907	067G 40Z47015K	EC 47UF 20% 450V 12.5*35	
C921	067G 4156814KV	EC 680UF 20% 25V EP 12.5*12	
C918	067G215D6814KV	EC 680UF 20% 25V 10*20	
C922	067G215S4713KV	EC 470UF 20% 16V 10X13	
C931	067G215S4713LV	LOW ESR EC 470uF 16V M 10*12.5mm	
C613	067G305S1013HB	EC 100uF 16V 6.3*7mm	
C604	067G305S1013HB	EC 100uF 16V 6.3*7mm	
L901	073G 174 65 H2	LINE FILTER 30mH MIN	
L907	073G 253191 H	IND CHOKE 1.1uH DADON	
L906	073G 253191 H	IND CHOKE 1.1uH DADON	
T901	080GL22T 3 N3	X'FMR 490UH 7% 4UH YUVA-1656	
CN901	087G 501 48 S	AC SOCKET 3PIN + 3 Hole	
CN601	088G302J5G1VCL	PHONE JACK V/T 5P GREEN H=15	
D901	093G 60335	DIODE SR515 5A/150V DO-201AD	
D902	093G 60335	DIODE SR515 5A/150V DO-201AD	
CN902	095G 825 9D905	HARNESS 9P(SCN) - 9P 80mm FQE100911I	2nd source
CN902	095G 825 9T905	HARNESS 9P-9P 80	
	0Q1G 340 8140	SCREW 4.0x8.0	
	705GHA57006	Q901 ASS"Y	
	705GHA93006	D906 ASS"Y	
	709G4744 HM001	CONSUMPTIVE ASS'Y	
	H40G 45762429A	LABEL	
	LNPCAA481GHD4	CONVERTER G4013-P01-002-X-3-110117	
BD901	093G 50460515	BRIDGE KBP308G-C 3A 800V KBP	
CN402	033G3802 6B Y L	WAFER	
CN701	033G3802 9B Y L	CONN 2.0 9P	
CN408	033G801930F CH JS	FFC CONN 1.0mm 30P R/A 34mm 6.3mm	
CN101	088G 35315FVCL	D-SUB CONN V/T 15P BLUE H=10.4	
CN102	088G 35424F VC	DVI CONN 24P V/T WITH SCREW	
X401	093G 2251B J	CRYSTAL 12MHZ NXS12.000AC30F-KAB10	
	709G4502 HM001	COMSUPTIVE ASS'Y	
	H40G 45762429A	LABEL	
LED001	081G 12 1F GP	LED Φ3mm 黄绿双色 GP32032M/G307-ZY-50-C	
CN001	095G820H 6TE10	HARNESS 6P(SANW)-6P(2008) 120	
	709G4747 HM001	COMSUPTIVE ASS'Y	
Q901	057G 667941	MOSFET P0765ATF 7 650 TO-220F	
HS1	090G6064 1	HEAT SINK	

	0M1G 930 8120	SCREW 3x8	
HS3	090G6084 1 GP	HEAT SINK	
D906	093G 60507	SCHOTTKY SRF1060 C0 10A 60V ITO-220AB	
	0M1G 930 8120	SCREW 3x8	
	055G 23524	WELDING FLUX WITHOUT PB	
	Q51G 6 4509	GLUE_RTV	
	Q55G 100625	TIN STICK_LOW ARGENTUM	
U901	056G 379529	AC/DC CONVERTER IC LD7576AGR SOP-7	
Q607	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	
Q608	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
R612	061G0603102 JT	RST CHIP 1K 1/10W 5% TZAI YUAN	
R601	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R602	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R603	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R610	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R613	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R609	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R604	061G0603223 JF	RST CHIPR 22KOHM 5% 1/10W FENGHUA	
R605	061G0603223 JF	RST CHIPR 22KOHM 5% 1/10W FENGHUA	
R606	061G0603333 JT	RST CHIP 33K 1/10W 5% TZAI YUAN	
R607	061G0603333 JT	RST CHIP 33K 1/10W 5% TZAI YUAN	
RJ801	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
RJ601	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R907	061G0805102 JT	RST CHIPR 1K OHM +- 5% 1/8W TZAI YUAN	
R928	061G0805103 JF	RST CHIPR 10K OHM +-5% 1/8W FENGHUA	
R918	061G0805103 JT	RST 0805 10K 5% 1/8W	
R935	061G08052002FT	RST CHIP 20K 1/8W 1%	
R916	061G08052002FT	RST CHIP 20K 1/8W 1%	
R920	061G0805202 JF	RST CHIPR 2KOHM +-5% 1/8W FENGHUA	
R919	061G0805221 JF	RST CHIPR 220 OHM +-5% 1/8W FENGHUA	
R905	061G0805471 JT	RST CHIPR 470OHM +-5% 1/8W TZAI YUAN	
R925	061G08059101FF	RST CHIPR 9.1KOHM +-1% 1/8W FENGHUA	
RJ608	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
RJ607	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
RJ606	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
RJ605	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
RJ604	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
RJ603	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
RJ602	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
F801	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
R917	061G1206100 JT	RST CHIPR 10 OHM +-5% 1/4W TZAI YUAN	
R903	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	
R909	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	
R910	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	

R912	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	
R929	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	
R930	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	
R911	061G1206103 JF	RST CHIPR 10KOHM +-5% 1/4W FENGHUA	
R908	061G1206103 JT	RST CHIPR 10KOHM +-5% 1/4W TZAI YUAN	
R913	061G1206109 JT	RST CHIPR 1 OHM +-5% 1/4W TZAI YUAN	
R923	061G1206221 JT	RST CHIPR 220 OHM +-5% 1/4W TZAI YUAN	
R902	061G1206624 JF	RST CHIPR 620KOHM +-5% 1/4W FENGHUA	
R901	061G1206624 JF	RST CHIPR 620KOHM +-5% 1/4W FENGHUA	
R900	061G1206624 JF	RST CHIPR 620KOHM +-5% 1/4W FENGHUA	
C605	065G060310412K Y	CAP CHIP 0603 100N 16V X7R +/-10%	
C612	065G060310412K Y	CAP CHIP 0603 100N 16V X7R +/-10%	
C614	065G060310412K Y	CAP CHIP 0603 100N 16V X7R +/-10%	
C608	065G060310512K M	CAP 0603 1UF 10% 16V X7R	
C609	065G060310512K M	CAP 0603 1UF 10% 16V X7R	
C617	065G060320131J Y	CAP CHIP 0603 200PF J 50V NPO	
C618	065G060320131J Y	CAP CHIP 0603 200PF J 50V NPO	
C619	065G060320131J Y	CAP CHIP 0603 200PF J 50V NPO	
C620	065G060320131J Y	CAP CHIP 0603 200PF J 50V NPO	
C621	065G060320131J Y	CAP CHIP 0603 200PF J 50V NPO	
C622	065G060320131J Y	CAP CHIP 0603 200PF J 50V NPO	
C610	065G060347131J Y	CAP CHIP 0603 470P 50V NP0 +/-5%	
C611	065G060347131J Y	CAP CHIP 0603 470P 50V NP0 +/-5%	
C606	065G060347412K Y	CAP CHIP 0.47uF 16V +/-10% X7R	
C603	065G060347412K Y	CAP CHIP 0.47uF 16V +/-10% X7R	
C602	065G060347412K Y	CAP CHIP 0.47uF 16V +/-10% X7R	
C601	065G060347412K Y	CAP CHIP 0.47uF 16V +/-10% X7R	
C923	065G080510232K F	CAP 0805 1000PF 10% 50V X7R	
C906	065G080510232K Y	CAP CHIP 0805 1N 50V X7R +/-10%	
C914	065G080510232K Y	CAP CHIP 0805 1N 50V X7R +/-10%	
C915	065G080510332K Y	CAP CHIP 0805 10N 50V X7R +/-10%	
C924	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	
C912	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C926	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C927	065G080547332K F	CAP CHIP 0805 47NF K 50V X7R	
C916	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
C917	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
C928	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
C929	065G120622272K Y	CER 1206 2N2 500V X7R 10%	
FB602	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	
FB603	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	
FB604	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	
FB605	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	
R608	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	

	709G4744 HS001	CONSUMPTIVE ASS'Y	
C807	067G 415479 9K	EC 4.7UF 20% 100V ED 8*12	
C809	067G315M1016KV	EC 100UF 20% 35V 8*7	
CN802	311GB254B04AAL	PIN HEADER 2.54MM 4P 2P7.2MM/2P4.0MM	
CN801	311GB254B07AAL	PIN HEADER 2.54MM 7P 5P7.2MM/2P4.0MM	
	709G3823 HM001	COMSUPTIVE ASS'Y	
	H40G 45762429A	LABEL	
	Q55G 100625	TIN STICK_LOW ARGENTUM	
C716	067G 3051013PB	EC 105C 100uF M 16V 5*11mm JH CD263	
C705	067G 3051013PB	EC 105C 100uF M 16V 5*11mm JH CD263	
C433	067G 3051013PB	EC 105C 100uF M 16V 5*11mm JH CD263	
C702	067G 3051013PB	EC 105C 100uF M 16V 5*11mm JH CD263	
U401	056G 562368	SCALER NT68660FG/B TQFP-100	
U701	056G 563515	LDO AZ1117D-3.3TR/E1 1A/3.3V TO-252	
U102	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	
U103	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	
U104	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	
U106	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	
U107	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	
U101	056G1133956	IC CAT24C02WI-GT3 SO-8	
U105	056G1133956	IC CAT24C02WI-GT3 SO-8	
U402	056G2233 11	IC Pm25LD020C-SCE SIOC-8(150mil) 2M	
Q402	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	
Q401	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	
Q701	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q706	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q705	057G 763940	MOSFET AO3401A SOT-23	
R711	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R453	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R410	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R409	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R407	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R406	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R118	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R117	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R110	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R109	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R104	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R103	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	
R141	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	
R140	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	
R139	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	
R138	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	
R137	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	

R136	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	
R135	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	
R134	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	
R124	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R127	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R128	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R129	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R431	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R434	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R439	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R703	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R712	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R798	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R101	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R102	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R105	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R106	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R108	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R111	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R113	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R119	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R121	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R123	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	
R488	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	
R487	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	
R424	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	
R130	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	
R799	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	
R714	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	
R704	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	
R444	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	
R429	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	
R427	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	
R425	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	
R415	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	
R422	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	
R715	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	
R432	061G0402105 JT	RST CHIP R 1Mohm 1/16W +/-5% TZAI YUAN	
R413	061G0402222 JT	RST CHIP 2K2 1/16W 5% TZAI YUAN	
R411	061G0402222 JT	RST CHIP 2K2 1/16W 5% TZAI YUAN	
R126	061G0402222 JT	RST CHIP 2K2 1/16W 5% TZAI YUAN	
R125	061G0402222 JT	RST CHIP 2K2 1/16W 5% TZAI YUAN	
R719	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	
R701	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	

R454	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	
R133	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	
R116	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	
R416	061G0402224 JT	RST CHIP 220K 1/16W 5% TZAI YUAN	
R423	061G0402224 JT	RST CHIP 220K 1/16W 5% TZAI YUAN	
R401	061G0402392 JT	RST CHIP R 3K9 +/-5% 1/16W TZAI YUAN	
R404	061G0402392 JT	RST CHIP R 3K9 +/-5% 1/16W TZAI YUAN	
R405	061G0402392 JT	RST CHIP R 3K9 +/-5% 1/16W TZAI YUAN	
R419	061G0402394 JF	RST CHIP R 390K +/-5% 1/16W FENGHUA	
R408	061G04024700FT	RST CHIP 470R 1/16W 1%	
R142	061G0402471 JT	RST CHIP 470R 1/16W 5% TZAI YUAN	
R114	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	
R115	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	
R131	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	
R132	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	
R702	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	
R721	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	
R120	061G0402750 JT	RST 0402 75R 5% 1/16W	
R112	061G0402750 JT	RST 0402 75R 5% 1/16W	
R107	061G0402750 JT	RST 0402 75R 5% 1/16W	
R122	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	
R417	061G0603331 JT	RST 0603 330R 5% 1/10W	
R418	061G0603471 JT	RST CHIPR 470OHM +-5% 1/10W TZAI YUAN	
FB701	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R726	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R449	061G1206301 JT	RST CHIPR 300 OHM +-5% 1/4W TZAI YUAN	
R448	061G1206301 JT	RST CHIPR 300 OHM +-5% 1/4W TZAI YUAN	
C120	065G040210232K T	CAP CHIP 0402 1000pF 50V X7R	
C415	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C417	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C418	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C419	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C422	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C424	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C425	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C427	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C434	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C701	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C703	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C704	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C706	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C718	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C113	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C114	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	

C115	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C117	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C118	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C119	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C402	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C403	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C405	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C408	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C409	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C410	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C411	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C412	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	
C414	065G0402105A5K Y	CAP 0402 1UF 10% 10V X5R	
C428	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	
C426	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	
C182	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	
C181	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	
C101	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	
C116	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	
C429	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	
C715	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	
C110	065G040247312K T	CAP 0402 47NF 10% 16V X7R	
C108	065G040247312K T	CAP 0402 47NF 10% 16V X7R	
C107	065G040247312K T	CAP 0402 47NF 10% 16V X7R	
C105	065G040247312K T	CAP 0402 47NF 10% 16V X7R	
C104	065G040247312K T	CAP 0402 47NF 10% 16V X7R	
C102	065G040247312K T	CAP 0402 47NF 10% 16V X7R	
C103	065G040250931C Y	CAP 0402 5PF 0.25pF 50V NP0	
C106	065G040250931C Y	CAP 0402 5PF 0.25pF 50V NP0	
C109	065G040250931C Y	CAP 0402 5PF 0.25pF 50V NP0	
C423	065G0805475A2K Y	CAP 0805 4U7 10V X7R +/-10%	
C421	065G0805475A2K Y	CAP 0805 4U7 10V X7R +/-10%	
C416	065G0805475A2K Y	CAP 0805 4U7 10V X7R +/-10%	
C413	065G0805475A2K Y	CAP 0805 4U7 10V X7R +/-10%	
C404	065G0805475A2K Y	CAP 0805 4U7 10V X7R +/-10%	
C401	065G0805475A2K Y	CAP 0805 4U7 10V X7R +/-10%	
FB409	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	
FB407	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	
FB404	071G 56V301 B	CHIP BEAD 0805 300R 25% 700mA	
FB405	071G 56V301 B	CHIP BEAD 0805 300R 25% 700mA	
FB408	071G 56V301 B	CHIP BEAD 0805 300R 25% 700mA	
D102	093G 64 42 P	BAV70 SOT23 BY PAN JIT	
D101	093G 64 42 P	BAV70 SOT23 BY PAN JIT	
ZD101	093G 39GA01 T	RLZ5.6B	

ZD102	093G 39GA01 T	RLZ5.6B	
	709G4502 HS001	COMSUPTIVE ASS'Y	
	715G4502M01000004C	MAIN BOARD PCB	
	H52G1701 1	MESH PRINTTING_PAPER	
R002	061G0603000 FF	RST CHIPR MAX0R01 1/10W FENGHUA	
R004	061G06031001FF	RST CHIPR 1 KOHM +-1% 1/10W FENGHUA	
R003	061G06032001FF	RST CHIP 2KOHM 1% 1/10W FENGHUA	
R001	061G06032001FF	RST CHIP 2KOHM 1% 1/10W FENGHUA	
D903	093G 6026T52T	CTIFIER DIODE FR107	
D904	093G 6026T52T	CTIFIER DIODE FR107	
CN901	006G 31500	EYELET	
IC903	056G 158 10 T	LDO IC AZ431AZ-AE1 TO-92 150MA 40V TO-92	
Q904	057G 530503 T	2SD1207T	
R915	061G 17222052T TZ	RST CFR 22R 5% 1/4W	
R906	061G152M10452T SY	RST MOFR 100KOHM +-5% 2WS FUTABA	
R904	061G152M25152T SY	RST MOF 250R 5% 2W	
R924	061G152M47852T SY	RST MOFR 0.47 OHM +-5% 2WS FUTABA	
C911	065G 2K152 2T6921	CAP CER 1500pF K 2KV Y5P	
C920	067G 2046812KT	CS CAP 680uF 10V 8*11 mm	
C913	067G215Y4707KT	EC 47uF 20% 50V 6.3*11mm EG	
J613	071G 55 9 T	BEAD 3.5*0.8*6.0mm 110R HF	
FB903	071G 55 29	FERRITE BEAD	
FB902	071G 55 29	FERRITE BEAD	
FB901	071G 55 29	FERRITE BEAD	
F903	084G 56 4 B	FUSE 4A 250V	
F902	084G 56 4 B	FUSE 4A 250V	
F901	084G 56 4 B	FUSE 4A 250V	
ZD901	093G 39A6852T	ZENER DIODES MTZJ22B DO-34	
D907	093G 6452452T	SWITCHING 1N4148-B4006 0.2A 100V DO-35	
D601	093G 6452452T	SWITCHING 1N4148-B4006 0.2A 100V DO-35	
J606	095G 90 23	JUMPER WIRE	
J605	095G 90 23	JUMPER WIRE	
J604	095G 90 23	JUMPER WIRE	
J603	095G 90 23	JUMPER WIRE	
J602	095G 90 23	JUMPER WIRE	
J601	095G 90 23	JUMPER WIRE	
J921	095G 90 23	JUMPER WIRE	
J910	095G 90 23	JUMPER WIRE	
J909	095G 90 23	JUMPER WIRE	
J907	095G 90 23	JUMPER WIRE	
J906	095G 90 23	JUMPER WIRE	
J905	095G 90 23	JUMPER WIRE	
J904	095G 90 23	JUMPER WIRE	
J810	095G 90 23	JUMPER WIRE	

J812	095G 90 23	JUMPER WIRE	
J901	095G 90 23	JUMPER WIRE	
J902	095G 90 23	JUMPER WIRE	
J903	095G 90 23	JUMPER WIRE	
J607	095G 90 23	JUMPER WIRE	
J608	095G 90 23	JUMPER WIRE	
J609	095G 90 23	JUMPER WIRE	
J610	095G 90 23	JUMPER WIRE	
J611	095G 90 23	JUMPER WIRE	
J612	095G 90 23	JUMPER WIRE	
J908	095G 90 23	JUMPER WIRE	
	709G4744 HA001	CONSUMPTIVE ASS'Y	
	715G4744P01000001C	ADAPTER BOARD PCB	
U801	056G 700 5	IC LED driver MP3389EF TSSOP28	
Q806	057G 763 92	FET P8008HV 4A/80V SOP-8	
R806	061G06031001FT	RST CHIP 1K 1/10W 1%	
R808	061G06031001FT	RST CHIP 1K 1/10W 1%	
R804	061G06031003FT	RST CHIP 100K 1/10W 1%	
R807	061G06032002FT	RST CHIP 20K 1/10W 1%	
R810	061G06032002FT	RST CHIP 20K 1/10W 1%	
R802	061G06032003FF	RST CHIPR 200KOHM 1/10W FENGHUA	
R803	061G06033002FF	RST CHIPR 30KOHM +-1% 1/10W FENGHUA	
R839	061G06033308FF	RST CHIP 3R3 1/10W 1% FENGHUA	
R819	061G06033602FF	RST CHIPR 36KOHM +-1% 1/10W FENGHUA	
R809	061G06036801FF	RST CHIPR 6.8KOHM +-1% 1/10W FENGHUA	
R853	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R852	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R848	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R847	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R846	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R845	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R844	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R843	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R842	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R841	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R815	061G0805000 JT	RST 0805 0.05R MAX 1/8W	
R834	061G0805109 JT	RST CHIP 1R 1/8W 5% TZAI YUAN	
R832	061G0805109 JT	RST CHIP 1R 1/8W 5% TZAI YUAN	
R805	061G0805304 JF	RST CHIPR 300KOHM +-5% 1/8W FENGHUA	
R818	061G1206000 JF	RST CHIPR MAX0R05 1/4W FENGHUA	
F801	061G12060004JF	RST CHIPR MAX0R05 4A 1/4W FENGHUA	
R801	061G12061009FT	RST CHIP R 10ohm 1/4W +/-1%	
R817	061G1206308 JT	RST 1206 0.3R 5% 1/4W	
R816	061G1206308 JT	RST 1206 0.3R 5% 1/4W	

R812	061G1206308 JT	RST 1206 0.3R 5% 1/4W	
C806	065G060310131J Y	CAP CHIP 0603 100P 50V NP0 +/-5%	
C802	065G060368332K Y	CHIP 0603 68NF 50V X7R	
C810	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C805	065G080522141J Y	CAP CHIP 0805 220P 100V NP0 +/-5%	
C801	065G080547432K A	CAP CHIP 0805 0.47UF K 50V X7R	
C803	065G080547432K A	CAP CHIP 0805 0.47UF K 50V X7R	
C804	065G080547432K A	CAP CHIP 0805 0.47UF K 50V X7R	
L801	073G253S 19 H	SMD CHOKE 33uH+-20% 3A	
D801	093G 60S907 T	SCHOTTKY B3100B 3A 100V SMB	
CN805	311GF100C06ADH	FFC CONN 1.0mm 6P	
E715	715G4013P01002004C	CONVERTER BOARD PCB	2nd source
E715	715G4013P01002004S	CONVERTER BOARD PCB	
SW005	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW004	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW003	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW002	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
SW001	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	
E715	715G4747K02000001C	KEY BOARD PCB	